

REPORT
OF THE
County Medical Officer of Health

For the Year ended December 31st, 1951

*To the County Health Committee of the County Council
of the County Palatine of Chester and to the Members
of the County Council.*

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Introduction

*To the Chairman and Members
of the County Health Committee.*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report dealing with the Health Services in the Administrative County of Cheshire for the year 1951.

There was again a slight decline in the crude birth rate from 14.8 to 14.5 per thousand population. The death rate increased from 11.6 to 13.1 per thousand population, the number of deaths being 10,768 in 1951, as against 9,540 in 1950. This increase of 1,228 deaths during the year is entirely referable to deaths over the age of 45. A Medical Officer of Health does not receive statistics of the incidence of sickness amongst the population, except from notifications of infectious diseases, so that it is only possible to draw attention to figures relating to the causes of death. The influenza epidemic of the early months of 1951 is reflected in a fivefold increase of influenza deaths from the previous year; significant trends are shown in the greater number of deaths from malignant disease of the lung and from the higher figures relating to deaths due to degenerative changes in the blood vessels.

There was, however, a satisfactory decrease in deaths from pulmonary tuberculosis to a new low record for the county. In this connection some anxiety is felt in that 30 children under 16 years of age, the highest number for some years, were notified as suffering from pulmonary tuberculosis. This may or may not be significant, as the apparent increase may be due to the improved means of diagnosis, and the active measures promoted to secure the attendance of contacts for examination.

I have to report that a slight rise took place in the infantile mortality rate, there having been 378 deaths under the age of one year, compared with 365 in 1950. This increase is entirely accounted for by the 255 deaths under four weeks of age as against 233 in the first month of life in the previous year. When reference was made to the place of birth of the babies who died under four weeks of age, it was found that 67 of these had been born under domiciliary conditions and 188 in hospital, maternity home or nursing home.

After the low record noted in last year's Annual Report, I regret to announce an increase in the number of maternal deaths from 11 to 13 deaths attributed to pregnancy, confinement and abortion. Three of these deaths were after domiciliary confinement (including one from abortion), nine took place after confinement at hospital or nursing home, and one occurred outside the county.

During 1951, 36.9% of births referable to Cheshire were attended by the County Council's midwifery staff.

Some details are given this time of the types of journeys performed by ambulance vehicles. The work done by this service is still increasing, both as regards the number of patients carried and the miles travelled.

In connection with the supervision of milk pasteurising establishments, a "field test" has been evolved which enables the officer to show the pasteuriser at his dairy whether his milk has been efficiently pasteurised or not. This field test (Aschaffenburg) is not an official test for the efficiency of pasteurisation. It has the advantage of a quick result but must always be confirmed by the phosphatase test. On one occasion when the Aschaffenburg test was applied in the laboratory to a sample of pasteurised milk, it was possible to warn the pasteuriser that his milk had not been efficiently treated before it had left the dairy, so that he was able to repasteurise the milk before delivering it to his customers.

New Child Welfare Centres have been opened at Ellesmere Port (toddlers) and Kingsley. It is desired to thank the members of the many Voluntary Committees for their most willing and untiring help at so many of the 117 Child Welfare Centres now established in the county.

The new Occupation Centre recently opened at New Ferry has been of great benefit to the parents of the mentally defectives being trained there. There is need for more such centres, particularly as, despite the co-operation of the officers of the Regional Hospital Boards, admission to hospital of ambulant imbeciles (the type suitable for occupation centre training) is very difficult to secure. A voluntary Mental Health Association has been set up in Wirral, with the object of stimulating interest in mental illness and mental deficiency; the local appreciation of the work of the County Authorised Officer for Wirral has been shown by his election as Chairman of the Association. This is, as yet, the only Association of its kind in Cheshire.

It will be noted that the number of cases in which Domestic Helps were provided again shows an increase; more and more domestic helps are being provided for aged people. There can

be no doubt that the work done under this scheme is helping to reduce the demand for beds in hospitals and hostels. A surprisingly small proportion of domiciliary confinement cases required the services of a domestic help.

Progress has been made on the Council's building programme. The new Clinic Centre at Runcorn was recently completed, and it is expected that the clinic centres urgently needed at Heswall, Neston and Cheadle will shortly be opened, as also will be the new Ambulance Station at Crewe. Additional Nurses' Houses are a most pressing need.

The hope expressed in the last report that the number of contacts vaccinated against tuberculosis by B.C.G. (Bacillus Calmette-Guerin) vaccine would be increased has been fulfilled. The arrangements made at Clatterbridge Hospital for the B.C.G. vaccination of newly born children of tuberculous parents, and their subsequent segregation until the vaccination has taken effect, are particularly appreciated.

My grateful thanks are due to the Chairman and Members of the County Health Committee and of the Divisional Health Committees for their unfailing help and support.

I acknowledge with sincere thanks the continued help and co-operation which I have received from the Clerk of the County Council and the Heads of all the County Departments.

I have received throughout the year the utmost support and loyalty from all members of the Staff of the County Health Department, whose work, often difficult and laborious, is deserving of the highest commendation.

I beg to remain,

Your obedient Servant,

ARNOLD BROWN.

24th November, 1952.

Staff of the Public Health Department

County Medical Officer of Health and Chief School Medical Officer.	Arnold Brown, M.B., Ch.B., D.P.H.
Deputy County Medical Officer of Health	B. G. Gretton-Watson, M.A., M.B., B.Ch., D.P.H.
Senior Assistant Medical Officer for Maternity and Child Welfare	B. M. Butters, M.A., M.B., Ch. B., D.P.H.
Senior Assistant School Medical Officer	H. Craig, L.R.C.P. & S., L.R.F.P.S.
Assistant County Medical Officers	J. G. Bennett, M.D., Ch.B. R. A. Blyth, M.B., Ch.B. Ena Cant, M.B., Ch.B. R. Cargill, M.B., Ch.B. R. J. Clark, M.B., Ch.B., D.P.H. Jenny Craig, M.B., Ch.B., D.P.H. Hilda Dean, M.R.C.S., L.R.C.P. Aitolia English, M.R.C.S., L.R.C.P., M.B., B.S., D.C.H. Christina Laing, M.B., Ch.B., D.P.H. Alta Stout, M.B., Ch.B. Jessie Tough, M.B., Ch.B., D.P.H. Gladys Wilkinson, M.R.C.S., L.R.C.P.
Divisional Medical Officers—	
<i>Altringham</i>	D. Longbottom, M.B., Ch.B., D.P.H.
<i>Bebington</i>	D. O. Macdonald, M.B., Ch.B., D.P.H.
<i>Cheadle and Wilmslow</i>	D. G. Anderson, M.B., Ch.B., D.P.H.
<i>Crewe</i>	D. G. Crawshaw, M.B., Ch.B., D.P.H.
<i>Deeside</i>	J. Hatton, M.D., D.P.H.
<i>Hyde</i>	F. W. C. Brown, M.D., D.P.H.
<i>Macclesfield</i>	H. R. Dugdale, M.B., Ch.B., D.P.H.
<i>Mid-Cheshire</i>	W. S. Slater, M.B., M.R.C.S., D.P.H.
<i>Nantwich</i>	R. K. Hay, M.D., B.Ch., B.A.O., D.P.H.
<i>N. E. Cheshire</i>	T. W. Brindle, M.B., Ch.B., D.P.H.
<i>Runcorn</i>	E. N. H. Gray, L.R.C.P. & S., L.M., D.P.H.
<i>Sale and Lymm</i>	A. T. Burn, M.B., B.S., D.P.H.
<i>S. E. Cheshire</i>	L. Rich, M.B., Ch.B., D.P.H.
<i>S. W. Cheshire</i>	W. J. Birchall, M.B., M.R.C.S., L.R.C.P., D.P.H.
<i>Stalybridge and Dukinfield</i>	T. Holme, M.B., Ch.B., D.P.H.
County Analyst	S. Ernest Melling, F.I.C.

Dental Surgeons	H. R. Parry, L.D.S. (Senior). Edith Andrew, L.D.S. J. B. Andrew, B.D.S., R.C.S. E. Bradley, L.D.S. H. Foulkes, L.D.S., R.C.S. (Eng.). E. C. Griffin, L.D.S. A. F. Hely, L.D.S. R. H. Hurst, L.D.S. H. Jackson, L.D.S. Lisbeth Kippen, L.D.S., D.P.D. A. N. Leicester, B.D.S. F. C. Littleton, L.D.S. F. E. Lockwood, L.D.S. Muriel Manwood, L.D.S. (pt.-time). Marguerite Mason, B.D.S. (pt-time) H. P. Meek, L.D.S. Sheila Newell, B.D.S. J. S. O'Brien, L.D.S. Ruth Owen, L.D.S. E. S. Poulter L.D.S. Isabel Saunsbury, L.D.S. (pt.-time). H. W. S. Sheasby, L.D.S. Dorothy Walker, L.D.S. (pt.-time)
Ophthalmic Surgeons (Part-time)	P. J. Devlin, M.B., Ch.B., D.O.M.S. A. Holmes-Smith, M.A., M.B., B.Chir. D.O.M.S.
Orthopaedic Surgeons (Part-time)	C. Jacobs, M.D., M.B., B.S. E. Riley, M.B., Ch.B., D.O.M.S. L. R. C. Rose, L.M.S.S.A., D.O.
Paediatrician (Part-time)	T. Jackson, M.R.C.S., L.R.C.P. J. L. Mangan, F.R.C.S.I.
Ear, Nose and Throat Surgeons (Part-time)	H. Poston, M.B., B.Ch., B.A.O. R. Roaf, M.A., F.R.C.S. H. Williams, M.Ch., F.R.C.S. M. E. Winston, F.R.C.S.
Chest Physicians (Part-time)	J. D. Allan, M.D., F.R.C.P. E. M. Innes, F.R.C.S., D.L.O. A. W. McCay, F.R.C.S. G. A. Moulden, M.B., Ch.B., D.L.O.
Chief Administrative Assistant	J. Black, M.D., F.R.F.P.S., M.R.C.P.
County Sanitary Officer	D. L. Caldwell, M.A., M.R.C.P.
Supt. Authorised Officer	A. Fleming, M.B., Ch.B. A. C. C. Hughes, B.A., M.R.C.P. E. R. Smith, M.D. D. W. C. Tough, M.B., Ch.B.
Superintendent of Home Nursing	B. O'Connor, M.A.
Assistant Supervisor of Midwives	F. Humphries. J. Danby.
	Miss H. Wakefield.
	Miss M. A. Reynolds.

HEALTH VISITORS & SCHOOL NURSES (103)

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 1a. J. Briscoe, 8, Market Street, Hoylake (Tel. Hoylake 2322)	Hoylake-cum-West Kirby (Meols, Hoose & Central Wards)	Welfare Centre, 8, Market Street, Hoylake <i>Thurs. p.m.</i> M.A. Clinic, 8, Market Street, Hoylake <i>Mon., Wed., Thurs., Fri. a.m.</i> Eye Clinic, 8, Market Street, Hoylake <i>3rd Fri. n.m.</i> Ante-Natal Clinic, 8, Market Street, Hoylake <i>Tues. a.m.</i>
DISTRICT No. 1b. D. Christian, (Mrs.) 87, Palm Grove, Oxton, Birkenhead (Tel. Birkenhead 4702)	Grange Hoylake-cum-West Kirby (Park & South Wards)	Welfare Centre, Parish Hall, West Kirby <i>Fri. p.m.</i> Ante-Natal Clinic, 8, Market Street, Hoylake <i>Tues. a.m.</i>
DISTRICT No. 2a. V. R. Blades, (Mrs.)* 17, Leighton Road, Tranmere, Birkenhead (Tel. Birk. 1839)		Welfare Centre, Plymyard, Eastham <i>Mon. p.m.</i> (Tel. Eastham 1336) Welfare Centre, Victoria Hall, Hr. Bebington <i>Tues. p.m.</i> (Tel. Mountwood 1527) Welfare Centre, New Ferry Park, <i>Wed. p.m.</i> (Tel. R. F. 1143) Welfare Centre, Council Offices, Bromborough <i>Thurs. p.m.</i> (Tel. Brom. 2102) Welfare Centre, Mayer Hall, Bebington <i>Fri. p.m.</i> (Tel. R. F. 1440) Ante and Post Natal Clinic, New Ferry Park <i>Mon. & Fri. o.m.</i>
B. Shepherd* 13, Probyn Road, Wallasey	Bebington M.B. (Woodhey & Hr. Bebington Wards)	Welfare Centre, Victoria Hall, Hr. Bebington <i>Tues. p.m.</i> Ante and Post Natal Clinic, New Ferry Park <i>Fri. a.m.</i>
E. Symes, (Mrs.)* Flat 2, 29, Devonshire Place Oxton, Birkenhead (Tel. Birk. 5165)	Bebington M.B. (Poulton Ward)	Ante and Post Natal Clinic, New Ferry Park <i>Mon. o.m.</i> Welfare Centre, Women's Institute, Thornton <i>1st and 3rd Fri. p.m.</i> Hough
E. Nicholson,* Rotherwood (Flat 6), Mill Road, Hr. Bebington (Tel. Rock Ferry 2240)	Bebington M.B. (Bebington & Sunlight Wards)	Ante & Post Natal Clinic, New Ferry Park <i>Fri. a.m.</i> Welfare Centre, Mayer Hall, Bebington <i>Fri. p.m.</i>
E. Wright,* 539, Old Chester Road, Birkenhead	Bebington M.B. (Eastham Ward)	Ante & Post Natal Clinic, New Ferry Park <i>Mon. o.m.</i> Welfare Centre, Plymyard Eastham <i>Mon. p.m.</i> M.A. Clinic, Council Offices, Bromborough <i>1st Tues. a.m.</i>
R. Abraham,* 21, Rock Park, Rock Ferry (Tel. R.F. 728)	Bebington M.B. (N. & S. Bromborough Wards)	Toddlers' Centre, Plymyard, Eastham <i>3rd Fri. p.m.</i> Ante & Post Natal Clinic, New Ferry Park <i>Fri. a.m.</i> Welfare Centre, Council Offices, Bromborough <i>Thurs. p.m.</i>
E. Binyon,* 264, Spital Road, Bromborough	Bebington M.B. (Park & New Ferry Wards)	Ante & Post Natal Clinic, New Ferry Park <i>Mon. a.m.</i> Welfare Centre, New Ferry Park <i>Wed. p.m.</i>
D. Bushell† 6, Brelade Road, Liverpool, 13.	†Visits Schools in Bebington M.B.	M.A. Clinic, St. Mark's Parish Room, New Ferry (Tel. R.F. 1213) Eye Clinic, New Ferry Park <i>3rd Sat. o.m.</i> Eye Clinic, St. Mark's Parish Room, New Ferry (Tel. R.F. 1213) <i>Fri. a.m.</i> E.N.T. Clinic, New Ferry Park <i>Monthly Sat. a.m.</i> Sun-Ray Clinic, New Ferry Park <i>Tues. & Fri. p.m.</i> Toddlers' Centre, New Ferry Park <i>2nd Thurs. p.m.</i>

*These Health Visitors also attend on rota the five other clinics listed opposite.

CIVIL PARISHES			CENTRES & CLINICS
DISTRICT No. 2b. E. L. Roberts, 10. Mostyn Avenue, West Kirby, Wirral (Tel. Hoylake 179).	Burton Capenhurst Ledsham Ness	Neston-cum- Parkgate Puddington Shotwick Willaston Woodbank	Welfare Centre, Wesleyan Sunday School, <i>Thurs. p.m.</i> M.A. Clinic, Wesleyan Sunday School, <i>Tues. a.m.</i> Welfare Centre, Red Cross Depot, Willaston <i>1st & 3rd Fri. p.m.</i>
DISTRICT No. -c. E. G. Sinden, (Mrs.) Gayton Grange (Flat 5). Well Lane, Gayton. Wirral (Tel. Heswall 2706)	Caldy Frankby Greasby	Irby Pensby Thurstaston	Welfare Centre, Village Hall, Irby <i>Alt. Mon. p.m.</i> Welfare Centre, Methodist Church Hall, <i>Alt. Wed. p.m.</i> Ante-Natal Clinic, British Legion Hall, <i>Thurs. a.m.</i>
DISTRICT No. 2d. M. Okill, 241, Pensby Road, Heswall, Wirral	Barnston Gayton Heswall-cum-Oldfield		Welfare Centre, Wesleyan Sunday School, <i>Alt. Mon. p.m.</i> M.A. Clinic, Wesleyan Sunday School, <i>Tues. p.m.</i> Eye Clinic, Wesleyan Sunday School, Heswall <i>2nd & 4th Fri. p.m.</i> Ante-Natal Clinic, British Legion Hall, <i>Thurs. a.m.</i>
DISTRICT No. 3a. A. Breakwell, (Mrs.) 17, Lincoln Drive, Hoole, Chester (Tel. E. P. 186) C. G. McKee,* 12, Thamessdale, Ellesmere Port (Tel. E. P. 2542)	Elton Little Stanney Ellesmere Port (Ince Ward)	Stoke Thornton-le- Moors U.D.	M.A. Clinic, York Road, Ellesmere Port <i>Mon.—Fri. a.m.</i> (Tel. E. Port 328) Eye Clinic, York Road, Ellesmere Port <i>Fri. a.m.</i> E.N.T. Clinic, York Road, Ellesmere Port <i>Alt. Mon. o.m.</i> Welfare Centre, York Road, Ellesmere Port <i>2nd, 4th & 5th Tues. p.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Tues. & 1st Fri. p.m.</i> Ante Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m. & Fri. a.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Fri. p.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>1st, 4th & 5th Wed. p.m. & 3rd Fri. a.m.</i> Welfare Centre, Community Centre, Overpool <i>1st & 3rd Thurs. p.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Tues. p.m.</i> Ante Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m. & Fri. a.m.</i>
M. L. Bate,* Waterdale, 86, Chester Road, Ellesmere Port (Tel. E. P. 9) J. F. Fawcett,* 52, Princes Boulevard, Bebington (Tel. Rock Ferry 4544)	Ellesmere Port U.D. (South Ward)	Ellesmere Port U.D. (Whitby & Stanney Wards)	Welfare Centre, Methodist Church, Little Sutton. <i>Mon. p.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>1st, 2nd, 3rd & 5th Wed. p.m. & 1st Fri. a.m.</i> Welfare Centre, Community Centre, Overpool <i>1st & 3rd Thurs. p.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Fri. & 1st & 3rd Tues. p.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>2nd, 3rd & 4th Wed p.m., 2nd, 4th & 5th Fri a.m.</i> Welfare Centre, Community Centre, Overpool <i>1st & 3rd Thurs. p.m.</i> M.A. Clinic, York Road, Ellesmere Port <i>Mon., Thurs.—a.m.</i>
D. Maybury.* 149, Heath Road, Bebington	Ellesmere Port U.D. (Victoria & Grange Wards)		
* These health visitors also attend on rota the clinic listed opposite			
DISTRICT No. 3b. D. Toft, The Oaks Lodge, Upton, Chester (Tel. Chester 236381)	Aldford Burton Chester Castle Christleton Churton Heath Claverton Doddleston Eaton Froleston Golborne Bellow Golborne David Great Boughton	Handley Huntington Kinnerton Lea Newbold Littleton Marlston Newton-by-T'hall Poulton Pulford Rowton Saughton Tattenhall	Welfare Centre, Barbour Institute, Tattenhall <i>2nd & 4th Mon. p.m.</i> Welfare Centre, Village Hall, Huntington <i>2nd & 4th Wed. p.m.</i> M.A. Clinic, Barbour Institute, Tattenhall <i>1st, 3rd & 5th Wed. p.m. 2nd & 4th Weel. a.m.</i>

CIVIL PARISHES

CENTRES, & CLINICS

DISTRICT No. 4a

B. Jackson,
30, Acres Lane,
Upton, Chester

Hoole U.D.

Hoole Village

Welfare Centre, 55, Hoole Road, Chester
Tues. p.m., 1st Thurs. p.m.
(Tel Chester 22299)
M.A. Clinic, 55, Hoole Road, Chester
Man.—Fri. a.m.
Ante and Post Natal Clinic, 55, Hoole Road,
2nd & 4th Thurs. p.m.
Eye Clinic, 55, Hoole Road, Chester
3rd Wed. a.m. & 1st Fri. p.m.

DISTRICT No. 4b.

G. E. Crawford,
8a, Abbots Grange,
Chester

Bache

Backford
Barrow
Bridge Trafford
Caughall
Chorlton-by-
Backford
Croughton
Dunham-on-
the-Hill
Guilden Sutton

Hapsford

Lea-by-Backford
Mickle Trafford
Mollington
Moston
Picton
Saughall
Shotwick Park
Upton
Wervin
Wimbolds Trafford

Welfare Centre, Village Hall, Upton

Thurs. p.m.
Welfare Centre, Vernon Institute, Slughall
1st, 3rd & 5th Mon. p.m.
Welfare Centre, Village Hall, Barrow
1st & 3rd Wed. p.m.

DISTRICT No. 5

M. Gourlay,
2, Grosvenor Road,
Tarvin,
Chester

(Tel. Tarvin 345)

Ashion

Beeston
Bruen Stapleford
Burton-by-Tarvin
Clotton Hoofield
Cotton Abbotts
Cotton Edmunds
Delaniere
Duddon
Eaton
Foulk Stapleford
Hatton
Hockenhull
Horon-cum-Peel

Huxley

Iddinshall
Kelsall
Mouldsworth
Pryor's Heys
Rushton
Tarpory
Tarin
Tilstone Fearnall
Tiverton
Utkinton
Waverton
Willington

Welfare Centre, Victory Hall, Taporley.

2nd & 4th Thurs. o.m.
Welfare Centre, Parish Hall, Kelsall
1st & 3rd Tues. p.m.
M.A. Clinic, Victory Hall Taporley.
Fri. a.m.
Welfare Centre, Radcliffe's Hut, Tarvin
2nd & 4th Wed. p.m.
Eye Clinic, Victory Hall, Taporley
4th Fri. p.m.

DISTRICT No. 6

J. Bittern, (Mrs.)
5, Raymond Street,
Chester

Agden

Aldersey
Barton
Bickerton
Bickley
Bradley
Broxton
Burwardsley
Caldecott
Carden
Chidlow
Chorlton
Chowley
Church Shocklach
Churton-by-Al'f'd
Churton-by-F'don
Clutton
Coddington

Grewe

Cuddington
Duckington
Edge
Edgerley
Egerton
Farndon
Grafton
Hampton
Harthill
Horton
Kings Marsh
Larkton
Maceten
Malpas
Newton-by-
Malpas
Oldcastle

Welfare Centre, Parish Hall, Malpas

1st & 3rd Man. p.m.
M.A. Clinic, Jubilee Hall, Malpas
Thurs. p.m.
Welfare Centre, Memorial Hall, Farndon
1st & 3rd Tues. p.m.

Overton
Shocklach Oviatt
Stockton
Stretton
Threapwood

Tilstion-by-Malpas
Tushingam
Wigland
Wychough

DISTRICT No. 7a.

H. K. Coventry,
11, Weston Crescent,
Runcorn

Runcorn U.D.
(Mersey and Halton Wards)

Welfare Centre, 34, Halton Road, Runcorn
Wed. a.m.
(Tel. Runcorn 2449)
Ante and Post Natal Clinic, 34, Halton Road.
Thurs. a.m.
Runcorn

E. Briers, (Mrs.)
17, Cornwall Avenue,
Runcorn

Runcorn U.D.
(Heath Ward (pt. i) and
Weston Ward)

Welfare Centre, 34, Halton Road, Runcorn
Wed. a.m. & p.m.
M. A. Clinic, 28, Halton Road, Runcorn
Thurs. p.m.
Eye Clinic, 28, Halton Road, Runcorn
2nd & 4th Tues. p.m.

CIVIL PARISHES			CENTRES & CLINICS
DISTRICT No. 7a.—Cont.			
A. Davies 3, Cornwall Street, Runcorn	Runcorn U.D. (Heath Ward (part ii) and Newton Ward)		Welfare Centre, 34, Halton Road, Runcorn <i>Wed. a.m.</i> M.A. Clinic, 28, Halton Road, Runcorn <i>Tues. a.m., Fri. a.m.</i> Paediatric Clinic, Memorial Hospital, Runcorn <i>Wed. p.m.</i>
J. Delaney, (Mrs.) 16, Nicholas Avenue, Ditton, Widnes, Lancs.	Runcorn U.D., (Bridgewater and Central Wards)		Welfare Centre, 34, Halton Road, Runcorn <i>Wed. p.m. & 2nd Mon. a.m.</i> M.A. Clinic, 28, Halton Road, Runcorn <i>Mon. p.m.</i> Ante- & Post-Natal Clinic, 34, Halton Road, <i>Thurs. a.m.</i> Runcorn Eye Clinic, 28, Halton Road, Runcorn <i>1st & 3rd Tues. p.m.</i>
DISTRICT 7b. S. E. Robinson, 23, Weston Crescent, Runcorn	Aston Daresbury Dutton Halton Hatton Kingsley Moore	Norley Norton Preston Brook Sutton Walton Whitley	Welfare Centre, Trinity Church House, <i>Alt. Tues. p.m.</i> Frodsham Welfare Centre, Hurst Church Hall, Kingsley <i>2nd & 4th Wed. p.m.</i>
DISTRICT No. 8. R. Potter, 262, Padgate Lane, Padgate, Warrington	Alvanley Frodsham Helsby	Manley	M.A. Clinic, Trinity Church House, <i>Thurs. p.m.</i> Frodsham Welfare Centre, Trinity Church House, <i>Alt. Tues. p.m.</i> Frodsham Eye Clinic, Trinity Church House, Frodsham <i>4th Thurs. a.m.</i> E.N.T. Clinic, Trinity Church House, Frod- <i>Even months 1st Mon. a.m.</i> sham Welfare Centre, Cable Works, Helsby <i>Alt. Tues. p.m.</i>
DISTRICT No. 9 D. Williams, Darland House, Winnington Hill, Northwich (Tel. Northwich 4643) J. Bleazard, (Mrs.) 20, Grove Avenue, Kidsgrove, Stoke-on-Trent	Acton Anderton Barnton Comberbach Crowton Weaverham	Great Budworth Little Leigh Marbury	M.A. Clinic, Methodist Church, Barnton <i>Wed. a.m.</i> Welfare Centre, Meth. Church, Barnton <i>2nd & 4th Wed. p.m.</i> Welfare Centre, Parish Hall, Comberbach <i>1st & 3rd Wed. p.m.</i> Welfare Centre, Parish Hall, Weaverham <i>Tues. p.m.</i> M.A. Clinic County Primary School, Forest <i>Fri. a.m.</i> Street, Weaverham
DISTRICT No. 10. D. Parkinson, Parkfield, Middlewich Road, Northwich (Tel. Northwich 2186)	Allostock Aston-by-Bud'th Bexton, Goostrey Lostock Gralam Marston Mere Nether Peover Ollerton	Peover Inferior Peover Superior Pickmere Plumley Tabley Inferior Tabley Superior Toft Wincham	Welfare Centre, The Institute, Lower Peover, <i>2nd & 4th Mon. p.m.</i> Welfare Centre, Parish Room, Over Peover <i>1st & 3rd Mon. p.m.</i> Eye Clinic, Parkfield, Northwich <i>1st, 2nd & 3rd Thurs. a.m.</i> E.N.T. Clinic, Parkfield, Northwich <i>2nd Fri. a.m.</i>
H. M. Dawson, 63, Manchester Road, Knutsford	Knutsford U.D.		
DISTRICT No. 11. A. McDonald, Parkfield, Middlewich Road, Northwich.	Northwich U.D. (Witton and Northwich Wards)		
S. Holt, Ivy House, Dunham Town, Altringham	Northwich U.D. (Castle and Winnington Wards)		

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 12

P. Holt,
Ivy House,
Dunham Town,
Altringham

Cuddington
Hartford
Lach Dennis

Rudheath
Wharfrost

M.A. Clinic, Parkfield, Northwich
Mon., Wed., Fri. & 4th Thurs. a.m.
Welfare Centre, Parkfield, Northwich
Thurs. p.m.
Welfare Centre, Meth. Chapel, Hartford
2nd & 4th Tues. p.m.
Ante-Natal Clinic, Parkfield, Northwich
Mon. p.m.
Welfare Centre, Church Hall, Sandiway
1st & 3rd Tues. p.m.

DISTRICT No. 13a

G. W. Johnson,
Highfield,
Swanlow Lane,
Winsford

Winwick U.D.
(Vale Royal & Wharton Wards)
Darnhall Marton
Davenham Moulton
Little Budworth Oakmere

Welfare Centre, 98, Weaver Street, Winsford
Fri. & 1st Thurs. p.m. (Tel. Winsford 2387)
Welfare Centre, Church Hall, Moulton
3rd Wed. p.m.
Welfare Centre, Methodist Church, Davenham
1st Mon. p.m.
Eye Clinic, 98, Weaver Street, Winsford
1st & 3rd Thurs. a.m.

DISTRICT No. 13b.

M. A. Cowley,
Darland House,
Winnington Hill,
Northwich
(Tel. Northwich 4643)

Winsford U.D.
(Gravel, Over & Swanlow
Wards)

Welfare Centre, 98, Weaver Street, Winsford
Fri. & 1st Thurs. p.m.
M.A. Clinic, 98, Weaver Street, Winsford
Mon. p.m. Wed. & Fri. a.m.
E.N.T. Clinic, 98, Weaver Street, Winsford
2nd Mon. a.m.

DISTRICT No. 14.

M. Hill,
85, Wheelock Street,
Middlewich
(Tel. Midd. 165)

Middlewich U.D.
Sproston
Bostock Stanthorne
Bylley Tetton
Church Hulme Wimboldsley
Cranage

Welfare Centre, 85, Wheelock Street, Middle-
wich Mon. p.m.
M.A. Clinic, 85, Wheelock Street, Middlewich
Mon. a.m., Wed. and Fri. p.m.
Eye Clinic, 85, Wheelock Street, Middlewich
1st Thurs. a.m., 3rd Tues. p.m., 3rd
Thurs. p.m.
E.N.T. Clinic, 85, Wheelock Street, Middle-
Even months 4th Thurs. a.m. wich
Welfare Centre, Mothers' Union Hut, H. James
2nd & 4th Tues. p.m. Chapel

DISTRICT No. 15.

E. M. Scott,
The Dowery,
Barker Street,
Nantwich

Nantwich U.D.
(Barony and Wellington &
Willaston Wards)
Alfrraham Leighton
Aston-juxta Minshull Vernon
Mondrum Poole
Calveley Wardle
Cholmondeston Warmingham
Church Minshull Wettenhall
Henhill Woolstanwood
Worleston

Welfare Centre, The Dowery, Nantwich
Thurs. p.m. (Tel. Nantwich 5360)
M.A. Clinic, The Dowery, Nantwich
Mon.—Fri. a.m.
Eye Clinic, The Dowery, Nantwich
2nd & 4th Thurs. a.m.

DISTRICT No. 16a

F. G. Kirkham, (Mrs.)
St. Bees,
Marsh Lane,
Nantwich

Nantwich U.D. (Weaver Ward)
Acton Faddiley
Asterson Haughton
Baddiley Hurleston
Baddington Marbury
Batheron Norbury
Brindley Peckforton
Broomhall Ridley
Bulkeley Sound
Bunbury Spurstow
Burland Stapeley
Cholmondeley Stoke
Chorley Wirswall
Coole Pilate Woodcott
Edleston Wrenbury

Welfare Centre, The Dowery, Nantwich
Thurs. p.m.

DISTRICT No. 16b.

D. Griffiths,
The Gables,
Audlem,
Crewe

Audlem Hankelow
Basford Hatherton
Blakenhall Hough
Bridge mere Husterson
Burton Lea
Checkley-cum- Newhall
Wrinehill Rope
Chorlton Shavington
Dodcott-cum- Walgherton
Wilkesley Weston
Doddington Wybunbury

Welfare Centre, Wesleyan Chapel, Audlem
1st and 3rd Tues. p.m.
Welfare Centre, Church Hall, Shavington
2nd & 4th Tues. p.m.

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 17a	Barthomley Church Lawton	Crewe (Rural) Haslington Odd Rode	Welfare Centre, Yoxall Institute, Haslington <i>All. Tues. p.m.</i> Welfare Centre, Parish Hall, Odd Rode <i>2nd & 4th Wed. p.m.</i> Welfare Centre, Methodist Sunday School, <i>1st & 3rd Wed. p.m.</i> Mow Cop Welfare Centre, The Institute, Rode Heath <i>1st & 3rd Mon. p.m.</i>
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DISTRICT No. 17b	Crewe M.B. (South District)		
A. Mullaney§ The Dowery, Barker Street, Nantwich	Crewe M.B. (Central District) Willaston	Wistaston	Paediatric Clinic, Stalbridge Road, Crewe <i>1st Fri. p.m.</i> (Tel. Crewe 2450)
R. Walch,§ Clifford House, Park Road, Willaston, Nantwich	Crewe M.B. (East District)		
L. M. D. Atkinson, (Mrs.)* Tall Chimneys, Sandbach	Crewe M.B. (North Central District)		Paediatric Clinic, Ludford Street, Crewe <i>3rd Fri. p.m.</i> (Tel. Crewe 2376)
E. Broom,* 10, Clifton Avenue, Crewe	Crewe M.B. (West & Coppenhall District)		E.N.T. Clinic, Ludford Street, Crewe <i>3rd Fri. a.m.</i>
J. S. Reid,* 48, Catherine Street, Crewe			Child Welfare Clinic, Ludford Street, Crewe <i>Thurs. a.m. & p.m.</i>
*These Health Visitors also attend on rota the four other Clinics listed opposite.			M.A. Clinic, Ludford Street, Crewe <i>Mon. & Wed. a.m.</i>
			Ante & Post Natal Clinic, Ludford Street, <i>Wed. p.m.</i> Crewe
			Eye Clinic, Ludford Street, Crewe <i>Wed. a.m.</i>
			Child Welfare Clinic, Stalbridge Road, Crewe <i>Mon. p.m.</i>
			M.A. Clinic, Stalbridge Road, Crewe <i>Tues. a.m.</i>
			Eye Clinic, Stalbridge Road, Crewe <i>As required</i>

DISTRICT No. 17c.	Alsager U.D.		
M. Ellis, (Mrs.) 89, Audley Road, Alsager, Stoke-on-Trent			Welfare Centre, St. Mary's Sunday School, <i>All. Tues. p.m.</i> Alsager

DISTRICT No. 18a.	Antrobus Appleton	Grappenhall Stretton	Welfare Centre, Methodist Sunday School, <i>Tues. p.m.</i> Grappenhall
			Welfare Centre, Parish Hall, Antrobus <i>1st & 3rd Wed. p.m.</i>

DISTRICT No. 18b.	Stockton Heath		Welfare Centre, 65, Whitefield Road, Stockton <i>Mon. p.m.</i> Heath
M. Newbold, 62, Fairfield Gardens, Stockton Heath, Warrington			(Tel. S.H. 925)
			M.A. Clinic, 65, Whitefield Road, Stockton <i>Thurs. a.m.</i> Heath

DISTRICT No. 19	Lymm U.D. Carrington High Legh	Partington Warburton	Eye Clinic, 65, Whitefield Road, Stockton <i>4th Tues. p.m.</i> Heath
F. L. Govan, 29, Eagle Brow, Lymm			Welfare Centre 29, Eagle Brow, Lymm <i>Tues. p.m.</i> (Tel Lymm 277)

DISTRICT No. 20.	Sale M.B. (St. Martin's & Mersey Wards)		Welfare Centre, 29, Eagle Brow, Lymm <i>Mon.—Fri. a.m., 2nd & 4th Wed. p.m.</i>
E. Heywood, (Mrs.)* 647, Altringham Road, Northenden, Manchester			Welfare Centre, St. Mary's Institute, <i>1st & 3rd Thurs p.m.</i> Partington
			M.A. Clinic, 29, Eagle Brow, Lymm <i>Mon.—Fri. a.m., 2nd & 4th Wed. p.m.</i>

		CIVIL PARISHES	CENTRES & CLINICS
District No. 20 (cont.)	H. Wingfield,* 70, Chapel Road, Sale, Manchester (Tel. Sale 1329)	Sale M.B. (St. Anne's & Sale Moor Wards)	M.A. Clinic, 70, Chapel Road, Sale Wed. a.m. Welfare Centre, Community Centre, Sale Thurs. p.m. Sun-ray Clinic, 70, Chapel Road, Sale Mon. & Fri. p.m.
E. Johnson,* 70, Chapel Road, Sale		Sale M.B. (St. Paul's & St. John's Wards)	Welfare Centre, 70, Chapel Road, Sale Tues. & Thurs. p.m. Ante and Post Natal Clinic, 70, Chapel Road, 1st, 2nd & 4th Wed. p.m. Sale E.N.T. Clinic, 70, Chapel Road, Sale 2nd Thurs. a.m.
B. Cunliffe,* 76, Harboro' Road, Sale		Sale M.B. (St. Mary's & Brooklands Wards)	M.A. Clinic, 70, Chapel Road, Sale Mon., Thurs. & Fri. a.m. Welfare Centre, Razlan Road, Sale 1st & 3rd Tues. p.m. Eye Clinic, 70, Chapel Road Sale Mon., a.m. Toddlers' Centre, 70, Chapel Road, Sale 2nd Wed. p.m.
*These Health Visitors also attend on rota the Clinics opposite.			

DISTRICT No. 21a.		Hale U.D. (North, Central & West Wards) Ashley	M.A. Clinic, 1, Hawthorn Road, Hale Mon. & Fri. p.m., Wed. a.m. Welfare Centre, Methodist School, Oak Rd., 2nd-5th Wed. p.m. Hale Ante-Natal Clinic, Methodist School, Oak Rd., 1st Wed. p.m. Hale Eye Clinic, 1, Hawthorn Road, Hale Tues. a.m.
A. Milvenan, Murieston (Top Flat), Belmont Road, Hale, Altrincham	Bowdon U.D. Hale U.D. (Hale Barns Ward) Ringway	Rostherne Tatton	Welfare Centre, Methodist Schoolroom, 2nd & 4th Thurs. p.m. Bowdon Welfare Centre, Methodist School, Oak Rd., 2nd-5th Wed. p.m. Hale Ante-Natal Clinic, Methodist School, Oak Rd., 1st Wed. p.m. Hale Welfare Centre, Unitarian School Room Hale 1st & 3rd Thurs. p.m. Barns

DISTRICT No. 21b.	L. E. H. Tripp, Samp.-rd Brett, Wainwright Road, Altrincham (Tel. Alt. 1884)	Altrincham M.B. (Dunham & North Wards) Agden Bollington	M.A. Clinic, 12, The Mount, Altrincham Mon. & Tues. a.m. (Tel. Alt. 1733) Welfare Centre, 12, The Mount, Altrincham Wed. p.m. Paediatric Clinic, 12, The Mount, Altrincham 2nd Fri. p.m.
J. M. Wild, (Mrs.) 6, Gibwood Road, Northenden, Manchester		Altrincham M.B. (East, Central & South West Wards)	Ante & Post Natal Clinic, 12, The Mount, 2nd, 3rd & 4th Tues. p.m. Altrincham Welfare Centre, 12, The Mount, Altrincham Mon. p.m., Wed. a.m. E.N.T. Clinic, 12, The Mount, Altrincham 1st Thurs. a.m. M.A. Clinic, 12, The Mount, Altrincham Fri. a.m.
G. E. Berry, The Vicarage, Urnston, Manchester		Altrincham M.B. (Timperley No. 1 & No. 3 Wards)	Ante-Natal Clinic, 145, Park Rd., Timperley 1st & 3rd Mon. a.m. (Tel. Sale 6639) Welfare Centre 145, Park Road, Timperley Tues. p.m., Thurs. a.m. & p.m.

DISTRICT No. 22a	M. Bell, (Mrs.) 3, Alma Lane, Wilmslow, Manchester (Tel. Wilmslow 2635)	Alderley Edge U.D. Wilmslow U.D. (Hough Ward)	Welfare Centre, 3, Alma Lane, Wilmslow Thurs. p.m. Welfare Centre, Victory Hall, Mobberley Alternate Tues. p.m. Welfare Centre, Church Institute, Alderley Fri. p.m. E.N.T. Clinic, 3, Alma Lane, Wilmslow Even months 4th Wed. a.m.
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CIVIL PARISHES			CENTRES & CLINICS
DISTRICT No. 22b B. E. Crosby (Mrs.), 27, Earle Road, Bramhall	Wilmslow U.D. (Styal and Handforth Wards) Hazel Grove and Bramhall U.D. (Woodford and South Wards)		Welfare Centre, Methodist Sunday School, 1st & 3rd Mon. p.m. Bramhall Welfare Centre, Conserv. Women's Club, 2nd & 4th Mon. p.m. Handforth
DISTRICT No. 22c D. M. Bowers, 1, Albany Road, Wilmslow Manchester	Wilmslow U.D. (Dean Row, Fulshaw and Morley Wards)		Welfare Centre, 3, Alma Lane, Wilmslow Thurs. p.m. M.A. Clinic, 3, Alma Lane, Wilmslow Tues. & Thurs. a.m. Eye Clinic, 3 Alma Lane, Wilmslow 1st Tues. p.m.
DISTRICT No. 23 M. Spencer, 2, Elm Drive, Macclesfield	Bosley Chelford Eaton Gawsworth Henbury Hulme Walfield Marston Mottram-St.- Andrew North Rode	Nether Alderley Over Alderley Prestbury Siddington Somertord Somerford Booths Snelson Swettenham Twemlow Withington	Welfare Centre, Wellington Road, Bollington 1st & 3rd Wed. p.m. (Tel. Boll. 2376)
M. D. Watson, 6a, Elm Drive Macclesfield (Tel. Macc. 2105)	Macclesfield M.B. (Central District)		Welfare Centre, Sanders Sq., Macclesfield Thurs. p.m. (Tel. Macc. 3800) Welfare Centre, 52, Bridge Street, Macclesfield (Tel. Macc.) 2nd, 3rd, 4th & 5th Tues p.m., Mon. p.m. Fri. p.m. Ante-Natal Clinic, 52, Bridge Street, Maccles- field 1st & 3rd Wed. p.m. Welfare Centre, Sanders Square, Macclesfield Thurs. & Fri. p.m. Ante-Natal Clinic, Sanders Square, Maccles. 4th Wed. p.m. M.A. Clinic, Sanders Square, Macclesfield Mon. & Thurs. a.m. Ante-Natal Clinic, Hurdshfield House, Macc. 2nd Wed. p.m. (Tel. Macc. 3282) Ante-Natal Clinic, 52, Bridge Street, Macc. 1st or 3rd Wed. p.m. Welfare Centre, Hurdshfield House, Maccles- field Thurs. p.m., 1st Tues. p.m. Ante-Natal Clinic, Hurdshfield House, Macc. 2nd Wed. p.m. Welfare Centre, 52, Bridge Street, Macc.. 2nd, 3rd, 4th & 5th Tues. p.m. Ante-Natal Clinic, Sanders Square, Macc. 4th Wed. p.m. Ante-Natal Clinic, 52, Bridge Street, Macc. 1st or 3rd Wed. p.m. Welfare Centre, Sanders Square, Macclesfield Alt. Fri. p.m. Ante-Natal Clinic, 52, Bridge Street, Macc. 1st & 3rd Wed. p.m. Welfare Centre, 52, Bridge Street, Macc. Mon. & Fri. p.m. M.A.Clinic, Pierce Street, Macclesfield (Tel. Macc. 3053) 1st Mon. p.m., Tues & Fri. a.m., Thurs. p.m. Eye Clinic, Pierce Street, Macclesfield 1st Mon. p.m., 1st, 3rd & 4th Tues. p.m. 4th Thurs. a.m. E.N.T. Clinic, Pierce Street, Macclesfield 1st Fri. a.m. Welfare Centre, Hurdshfield House, Macc. Thurs. p.m., 1st Tues. p.m. Ante-Natal Clinic, Hurdshfield House, Macc. 2nd Wed. p.m. M.A. Clinic, Pierce Street, Macclesfield 2nd, 3rd, 4th & 5th Mon. p.m. & Wed. a.m. Welfare Centre, Sanders Square, Macclesfield Alt. Fri. p.m. Ante-Natal Clinic, Sanders Square, Macc. 4th Wed. p.m. Welfare Centre, 52, Bridge Street, Macc. 1st Mon. p.m., 2nd Tues. p.m.
F. M. Yates, 17, Newhall Street, Macclesfield	Macclesfield M.B. (South West District)		
A. Grills, Springfield (Flat 3), Byron's Lane, Macclesfield	Macclesfield M.B. (North East District)		
T. Martin, 27, Victoria Road, Macclesfield	Macclesfield M.B. (North West District)		
N. R. Williams, Ivy Cottage, Snelson, Chelford, Crewe	Macclesfield M.B. (South East District)		

There is also a part-time School Nurse.

CIVIL PARISHES			CENTRES & CLINICS
DISTRICT No. 24 L. Jacks, Abbey Croft, Abbey Road, Sandbach	Sandbach U.D. Arclid Betchton Bradwall	Brereton Elton Hassall Smallwood	Welfare Centre, Marriott House, Sandbach <i>Tu.s. p.m.</i> (Tel. Sandbach 309) M.A. Clinic, Marriott House, Sandbach <i>Wed. & Fri. p.m.</i> Eye Clinic, Marriott House, Sandbach <i>2nd 3rd & 4th Mon. p.m.</i> E.N.T. Clinic, Marriott House, Sandbach <i>4th Fri. a.m.</i>
DISTRICT No. 25 G. F. Finger, 12, West Street, Congleton (Tel. Congleton 169) M. G. Diamond	Congleton M.B. (Buglawton & South Wards) Moreton-cum-Alcumlow Newbold Astbury	Congleton M.B. (North & West Wards)	Welfare Centre, 12, West Street, Congleton <i>Mon. p.m.</i> Ante & Post Natal Clinic, 12, West Street, Congleton <i>2nd & 4th Thurs., 1st Tues. p.m.</i> M.A. Clinic, Park Street, Congleton <i>Mon.-Fri. a.m.</i> (Tel. Cong. 2095) Eye Clinic, Park Street, Congleton <i>3rd Thurs. p.m.</i> E.N.T. Clinic, Park Street, Congleton <i>Odd months 4th Tu.s. a.m.</i> Welfare Centre, 12, West Street, Congleton <i>Mon. p.m.</i>
DISTRICT No. 26a M. B. Batty (Mrs.), 14, Parrswood Court, Manchester, 20	Cheadle and Gatley U.D. (Cheadle Hulme and Adsworth Wards)		M.A. Clinic, All Saints' Parish Room, Cheadle <i>Wed. p.m., Fri. a.m.</i> Hulme Welfare Centre, All Saints' Parish Room, <i>Alt. Tues. p.m.</i> Cheadle Hulme Welfare Centre, Mission Hall, Adsworth <i>1st & 3rd Mon. p.m.</i> Ante-Natal Clinic, Congregational Church <i>Fri. p.m.</i> Room, Cheadle Eye Clinic, All Saints' Parish Room, Cheadle <i>4th Thurs. p.m.</i> Hulme
DISTRICT No. 26b W. C. Heron, 53, Hawthorn Road, Chorlton-cum-Hardy, Manchester 21	Cheadle and Gatley U.D. (Cheadle Wards)		M.A. Clinic, Ashfield Road School, Cheadle <i>Mon., Wed. and Fri. a.m.</i> Welfare Centre, Congregational Church Room, <i>Tues. p.m.</i> Cheadle E.N.T. Clinic, Ashfield Road School, Cheadle <i>Even months 3rd Mon. p.m.</i> Eye Clinic, Ashfield Road School, Cheadle <i>1st & 3rd Thurs. p.m.</i>
DISTRICT No. 26c N. Heenan, 146, Edgeley Road, Cheadle Heath, Stockport	Cheadle and Gatley U.D. (Gatley & Heald Green Wards)		Welfare Centre, Methodist Church, Heald <i>1st & 3rd Thurs. p.m.</i> Green Ante-Natal Clinic, Congregational Church <i>Fri. p.m.</i> Room, Cheadle Welfare Centre, Cong. Sunday School, <i>2nd & 4th Thurs. p.m.</i> Gatley
DISTRICT No. 27. G. M. Bullough, 5, Seymour Road, Mile End, Stockport (Tel. Stepping Hill 4378)	Hazel Grove and Bramhall U.D. (North & East Wards)		Welfare Centre, 253, London Road, Hazel <i>Tues. p.m.</i> Grove M.A. Clinic, 253, London Road, Hazel Grove <i>Tues. a.m., Fri. p.m.</i> (Tel. Stepping Hill, 3022) Ante-Natal Clinic, 253, London Road, Hazel <i>Wed. p.m.</i> Grove Eye Clinic, 253, London Road, Hazel Grove <i>2nd Mon. p.m.</i> E.N.T. Clinic, 253, London Road, Hazel Grove <i>Even months, 3rd Thurs. a.m.</i> Paediatric Clinic, 253, London Road, Hazel <i>3rd Mon. p.m.</i> Grove
DISTRICT No. 28. M. R. Adamson, 34, Swanscoe Avenue, West Bollington, Macclesfield	Bollington U.D. Hurdfield Macclesfield Forest	Rainow Sutton Wildboarclough Winchle	Welfare Centre, Wellington Road, Bollington (Tel. Boll. 2376) <i>2nd & 4th Thurs., 1st & 3rd Wed. p.m.</i> M.A. Clinic, Wellington Road, Bollington <i>Tues. a.m.</i> Welfare Centre, Lane Ends Club, Sutton <i>2nd & 4th Wed. p.m.</i> Eye Clinic, Wellington Road, Bollington <i>2nd Tues. p.m.</i> E.N.T. Clinic, Wellington Road, Bollington <i>Odd months 3rd Wed. a.m.</i>

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 29a. S. Morris, 100, Wellington Road North, Stockport	Bredbury and Romiley U.D. (Bredbury Area)	Welfare Centre, Lower Bent's Lane, Bredbury 1st Tues. p.m., 2nd—5th Tues. a.m. & p.m. M.A. Clinic, Lower Bent's Lane, Bredbury Thurs. a.m. (Tel. Woodley 2392) Ante-Natal Clinic, Lower Bents Lane, Mon. p.m. Bredbury Eye Clinic, Lower Bents Lane, Bredbury 2nd Thurs. a.m.
DISTRICT No. 29b A. D. Law (Mrs.), 5, Jubilee Street, New Mills, Stockport	Bredbury and Romiley U.D. (Romiley, Compstall and Woodley Areas)	Welfare Centre, Leyfield Avenue, Romiley Thurs. p.m. M.A. Clinic, Leyfield Avenue, Romiley Mon. p.m.
S. A. Watson.* 4, Hartshead Avenue, Stalybridge	Stalybridge M.B. (Lancashire Ward and Dukinfield Ward pt. i)	Welfare Centre, Mechanics' Institute, Tues. & Wed. p.m. Stalybridge (Tel. Stalybridge 2304) Paediatric Clinic, Mechanics' Institute, Even months 4th Mon. p.m. Stalybridge
B. F. Sherratt.* Ashdene, Leafield Road, Disley, Stockport	Stalybridge M.B. (Staley Ward and Dukinfield Ward pt. ii)	Welfare Centre, Mechanics' Institute, Tues. & Wed. p.m. Stalybridge
D. P. Flint, 6, Greenbank Road, Marple Bridge, Stockport	Stalybridge M.B. (Millbrook Ward)	Welfare Centre, Oakwood Mill, Millbrook, Mon. p.m. Stalybridge M.A. Clinic, Mechanics' Institute, Stalybridge Mon., Wed. & Fri. a.m.
• These health visitors also take on rota the other clinic opposite.		Ante and Post Natal Clinic, Mechanics' Institute, Stalybridge 2nd, 3rd & 4th Thurs. p.m.
DISTRICT No. 30 W. Jones, 42, Mottram Road, Hyde	Dukinfield M.B. (Central and West Wards)	Welfare Centre, King Street, Dukinfield Wed. a.m. & p.m., Thurs. p.m. (Tel. Ashton 3794)
H. M. Thomas (Mrs.), 2, St. Luke's Crescent, Dukinfield	Dukinfield M.B. (Central and West Wards)	M.A. Clinic, King Street, Dukinfield (Tel. Ashton 3794) Mon. & Tues. a.m., Wed. Thurs. & Fri. p.m. Eye Clinic, King Street, Dukinfield 1st, 2nd & 4th Tues. p.m. E.N.T. Clinic King Street, Dukinfield, 4th Mon. p.m.
W. G. Grimstone, Rockville, Cote Green Road, Marple Bridge, Stockport	Dukinfield M.B. (East Ward)	Paediatric Clinic, King Street, Dukinfield Odd months 4th Mon. p.m. Welfare Centrc, King Street, Dukinfield W.d. a.m. & p.m., Thurs. p.m.
DISTRICT No. 31. D. Wood, 8, Marina Drive, Rose Hill, Marple, Stockport	Longendale U.D. Tintwistle R.D.	Welfare Centre, Wcdneshau Green, 1st & 3rd Thurs. p.m. Hollingworth M.A. Clinic, Wcdneshau Green, Tues. p.m. Hollingworth Welfare Centre, Christ Church School, 2nd & 4th Thurs. p.m. Tintwistle Welfare Centre, Wcsleyan School, 1st & 3rd Wed. p.m. Broadbottom
I. Burrill,* Woodhaven, Woodend Lane, Hyde (Tel. Hyde 39)	Hyde M.B. (Godley Ward pt. i)	Welfare Centre, Parsonage Street, Hyde Thurs. p.m. (Tel. Hyde 828) Ante-Natal Clinic, Parsonage Street, Hyde Mon. p.m. Paediatric Clinic, Parsonage Street Hyde 4th Fri. p.m.
F. Lonsdale,* Woodhaven, Woodend Lane, Hyde (Tel. Hyde 739)	Hyde M.B. (Newton Ward pt. i)	Welfare Centre, Parsonage Street, Hyde Wed. p.m. Welfare Centre, Bayley Hall, Hyde Mon. p.m. (Tel. Hyde 265)

CIVIL PARISHES

CENTRES & CLINICS

District No. 31—cont.

G. T. McAllister,*
11, Shaw Hall Avenue,
Newton, Hyde Hyde M.B.
(Godley Ward pt. ii,
Newton Ward pt. iii)

M. Taylor,*
1, Erskine Road,
Blackley,
Manchester, 9 Hyde M.B.
(Werneth Ward,
Newton Ward pt. ii)

*These Health Visitors also attend on rota the two other Clinics opposite.

Welfare Centre, Parsonage Street, Hyde
Wed. p.m.

Welfare Centre, Bayley Hall, Hyde
Fri. p.m.

Welfare Centre, Parsonage Street, Hyde
Thur. p.m.
Specialist's Eye Clinic, Reform Club, Hyde
1st & 3rd Mon. p.m.

M.A. Clinic, Reform Club, Hyde
Mon.—Fri. a.m. (Tel. Hyde 689)
D.M.O.'s Eye Clinic, Reform Club, Hyde
2nd & 4th Tues. a.m.

DISTRICT No. 32a.

S. Dickson (Mrs.),
Bute House,
Marple Bridge,
Stockport
(Tel. Marple 177)

Marple U.D.
(Ludworth, Mellor & North
Wards)

Welfare Centre, Parish Hall, Marple
Wed. p.m.

Welfare Centre, Methodist Sunday School,
2nd & 4th Thurs. p.m. Marple Bridge
Welfare Centre, Methodist Sunday School,
1st & 3rd Thurs. p.m. Mellor

DISTRICT No. 32b.

B. Brewster,
Spout House Farm,
Stringes,
Stockport
(Tel. Marple 1494)

Marple U.D.
(Cent. & South Wards)
Disley R.D.

Welfare Centre, Parish Hall, Marple
Wed. p.m.

Welfare Centre, Conservative Club, High Lane
Alt. Tues. p.m.

Welfare Centre, Gleneil House, Disley
Alt. Tues. p.m. (Tel. Disley 62)

M.A. Clinic, Parish Hall, Marple
Wed. a.m.
Eye Clinic, Parish Hall, Marple
3rd Thurs. a.m.

DISTRICT No. 33.

F. E. Kilbourn,
Edendale,
Buxton Road,
Newtown,
New Mills,
(Tel. Disley 476) Stockport

Adlington
Kettleholme
Lyme Handley

Pott Shrigley
Poynton

Welfare Centre, Park Lane, Poynton
1st & 3rd Thurs. p.m.

(Tel. Poynton 2127)
M.A. Clinic, Park Lane, Poynton
Tues. p.m.

E.N.T. Clinic, Park Lane, Poynton
Even months, 3rd Wed. a.m.
Eye Clinic, Park Lane, Poynton
2nd Thurs. p.m.

HOME NURSES (151)

(Those marked * practise Midwifery)

District	Nurse	Address	Tel. No.
Acton	Mrs. C. Carroll*	The Grove, Acton, Nantwich	Nantwich 5571
Adlington	Miss A. M. Kirkwood*	Surishine Cottage, Butley Lane, Adlington	Prestbury 8360
Alderley	Mrs. E. Gornall*	Nurse's Cottage, Monksheath, Chelford	Chelford Relief 216
Alderley Edge	Miss M. M. Hatton*	Holly Croft, Row of Trees, Alderley Edge	Alderley Edge 3364
Aldford	Miss D. Warburton*	Nurse's Cottage, Aldford	Aldford 37
Alsager	Mrs. E. Weatherall	27, Cresswellshawe Road, Alsager	Alsager 67
Altrincham	Miss D. Kershaw	61, Harcourt Road, Altrincham	Altrincham 2550
	Miss W. M. Barber*	53, Oxford Road, Altrincham	Altrincham 0138
	Miss L. M. Heaton	28, Westgate, Hale	.
	Miss E. Moores*	Kilrea, Market St., Altrincham	Altrincham 2051
Ashton	Mrs. F. B. Grayson	38, Langdale Road, Sale	Sale 3843
	Miss M. Ashbrook*	District Nurse's Home, Smithy Lane, Mouldsworth	Manley 268
Ashton-on-Mersey	Miss B. Kitchen	13, Harcourt Road, Sale	Sale 5764
Astbury	Miss V. Spencer*	Black & White Cottage, Astbury, Congleton	Congleton 451
Audlem	Miss C. Jones*	Station Road, Audlem	Audlem 313
Barnston	Miss A. M. Jones*	Watmough, Pensby Road, Thingwall	Irby 1496
Barnton	Miss G. Jones*	5, Cross Street, Barnton	Northwich 4080
Barrow	Miss B. Walker	Minnifordd, High Street, Tarvin	Tarvin 240
Bebington	Miss L. Cullum	Minnifordd, High Street, Tarvin	Tarvin 240
Bickerton	Miss E. Downham*	1, New Chester Road, New Ferry	Rock Ferry 4095
Bollington	Miss A. Barlow*	Nurse's Bungalow, Harthill	Broxton 231
	Miss M. E. Rhodes*	13, Waterhouse Avenue, Bollington, Macclesfield	Bollington 3179
Bramhall	Miss N. D. Entwistle*	13, Waterhouse Avenue, Bollington, Macclesfield	Bollington 3179
Bredbury	Mrs. M. C. Hallett*	81, Ack Lane, Bramhall	Bramhall 2377
	Miss M. Secker*	Gresford, Moor Lane, Woodford	Bramhall 1012
	Miss J. V. Secker*	13, George Lane, Bredbury	Woodley 2754
Bromborough	Miss F. Baughan	13, George Lane, Bredbury	Woodley 2754
		27, Queensbury Avenue, Bromborough	Bromborough 1037
Buglawton	Mrs. A. Thompson	41, Heygarth Road, Eastham	Eastham 1674
	Miss M. S. Bowman*	4, High Lowe Avenue, Buglawton, Congleton	Congleton 444
Bunbury	Mrs. E. C. Hurst*	Coniston, Bunbury, Tarporley	Bunbury 367
Burton	Miss M. Jones*	Pear Tree Cottage, Burton, Wirral	Burton 230
Castle	Miss M. A. Higgs*	37, Park Street, Northwich	Northwich 4041
Cheadle	Miss M. P. Watson*	6, Waldon Avenue, Cheadle	Gatley 3904
Cheadle Hulme	Miss C. Maher*	6, Waldon Avenue, Cheadle	Gatley 3904
Chelford	Miss J. Hughes*	58, Ladybridge Road, Cheadle Hulme	Hulme Hall 261
Cholmondeley	Miss M. Brocklehurst*	Church House, Chelford	Chelford 314
Combermere	Miss W. A. George*	Nurse's Cottage, Bickley Moss, Whitchurch	Cholmondeley 268
Congleton		1, Council Houses, Newhall Lane, Aston, Nantwich	Aston (Nantwich) 286
		20, The Westlands, Congleton	Congleton 2104

HOME NURSES (contd.)

District	Nurse	Address	Tel. No
Crewe	Miss C. Moss	5, Tynedale Avenue, Crewe	Crewe 3947
	Mrs. E. Heap	225, Wheelman Road, Crewe	Crewe 3163
Cuddington	Mrs. E. L. L. Hampson*	"Sunfield", Forest Road, Cuddington, Northwich	Sandiway 2163
Daresbury	Miss G. Roberts*	Delph Cottage, Daresbury	Moore 266
Davenham	Miss M. Buckley*	315, London Road, Davenham, Northwich	Northwich 3027
Delamere	Miss D. E. Joseph*	Wayside, Cotebrook, Tarporley	Little Budworth 91
Disley	Mrs. A. Rodger*	Grenaghan, Hollinwood Road, Disley	Disley 298
Doddington	Miss M. A. Edwards*	2, Back Lane, Walgherton, Nantwich	Wybunbury 345
Dodleston	Mrs. M. E. Pilliner*	The Cottage, Dodleston, Chester	Kinnerton 264
Dukinfield	Miss E. M. Ambler	15, Bates Street, Dukinfield	
	Miss M. W. Stratton	293, King Street, Dukinfield	
Dunham Massey	Miss W. Lewis	Thornlea, Station Road, Partington	Irlam 264
Ellesmere Port	Miss M. I. Raby	12, Thamessdale, Whitby, Wirral	E. Port 2542
Farndon	Mrs. A. Engstrom	66, Queen Street, Ellesmere Port	E. Port 2543
Frodsham	Mrs. L. Hill*	High Street, Farndon	Farndon 318
	Mrs. M. Rhaney	Wee Brae, Townfield Lane, Frodsham	
Gawsworth	Miss C. L. Young*	10, Kingsway, Frodsham	Frodsham 2109
Goostrey	Miss A. Bowyer*	5, Wardle Crescent, Gawsworth	Macclesfield 3329
	Miss G. Magee*	Booth Bank Road, Goostrey	Holmes Chapel 3244
Grappenhall	Miss P. M. Baker	30, George's Crescent, Grappenhall	Grappenhall 275
Great Budworth	Mrs. D. Sherratt*	Rose Bank, Marbury Lane, Comberbach	Comberbach 279
Hale Barns	Miss L. W. Saunders*	380, Hale Road, Hale Barns	Ringway 4113
Halton	Mrs. G. M. Williams*	47, Main Street, Halton, Runcorn	Runcorn 2597
Handforth	Miss M. E. Bailey*	Oak Brow Cottage, Styal, Wilmslow	Wilmslow 2738
Hartford	Miss D. Farman*	9, Manor Street, Greenbank, Northwich	Northwich 4028
Haslington	Mrs. J. Banks*	33, Cartwright Road, Haslington	Crewe 2693
Hazel Grove	Miss H. Barry	9, Bean Leach Road, Hazel Grove	Stepping Hill 2292
	Miss D. Austin*	9, Bean Leach Road, Hazel Grove	Stepping Hill 2292
Heald Green	Miss F. A. Jones*	29, Outwood Drive, Heald Green	Gatley 2592
Helsby	Mrs. N. E. Stewart*	1, Springfield Avenue, Helsby	Helsby 143
Heswall	Miss C. M. Edwards*	1, Shrewsbury Road, Heswall	Heswall 710
Higher Bebington	Miss L. Ashby*	10, Greenway, Pensby, Wirral	
Higher Sutton	Miss M. R. Davies	216, Higher Bebington Road, Higher Bebington, Wirral	Mountwood 1840
High Lane	Mrs. E. Carruthers*	1, Robin Crescent, Sutton, Macclesfield	Sutton 363
Hollingworth	Miss F. Boast*	25, Parkside Close, High Lane, Stockport	Disley 78
	Mrs. G. E. Hewitt	Mount House, Hollingworth, Manchester	Mottram 3210
Holmes Chapel	Miss L. B. Blunsum*	19, West Way, Holmes Chapel	H. Chapel 2226

HOME NURSES (contd.)

District	Nurse	Address	Tel. No.
Hoylake	Miss L. Hughes	44, Stanley Road, Hoylake	Hoylake 1517
Hyde	Miss G. McClean	17, Henry Street, Hyde	Hyde 488
	Miss H. Sutton	17, Henry Street, Hyde	Hyde 488
Ince	Mrs. E. Parker*	Park Wood, Dunham Hill, Warrington	
Irby	Miss G. Wotton*	Irby Hill Farm, Mill Hill Road, Irby	Irby 169
Knutsford	Miss D. Cadogan*	Mere Heath Lane, Mere, Knutsford	Knutsford 1752
	Miss M. Owen*	1, Racefield Road, Knutsford	Knutsford 505
Little Leigh	Miss M. Fitton*	68, Astbury Drive, Barnton, Northwich	Knutsford 504
Little Sutton	Mrs. V. Sandbach	22, Glenwood Road, Little Sutton	Hooton 2110
Lostock	Miss M. Morris*	337, Manchester Road, Lostock	
Gralam		Gralam	Northwich 3046
Lymm	Miss C. Cahill	26, Highfield Road, Lymm	Lymm 116
Macclesfield	Miss K. M. Tanner	11, Northgate Avenue, Maccles- field	Maccles- field 2169
	Miss M. Otter	57, Bond Street, Macclesfield	Macclesfield 2841
Malpas	Mrs. B. Scragg	Hawthorn Cottage, Church Rd., Malpas	Malpas 96
	Miss L. Powell*	Lynwood, Bowden Lane, Marple	Marple 361
Marple	Miss C. Turner*	The Cottage, Lower Fold,	
Marple Bridge	Miss N. Greenleaf*	Marple Bridge	Marple 166
Marston	Mrs. E. Davies*	Brackley, Pickmere Lane, Pickmere	Pickmere 242
Middlewich	Miss E. M. Adamson*	Hayward, Croxton Lanc,	Middlewich 151
	Miss G. Benger*	Middlewich	
Mobberley	Miss D. H. Moss*	18, Edenfield Av., Mobberley	Mobberley 3132
Mossley			
Mottram	Mrs. J. M. Huyton	25, Stockport Road, Mottram, Manchester	Mottram 2183
Moulton	Miss V. R. Watts*	11, Regent Street, Moulton, Northwich	
		Northwich	Winsford 2346
Nantwich	Miss E. Larnach*	1, Wellington Road, Nantwich	Nantwich 5294
	Miss M. Mansfield*	1, Wellington Road, Nantwich	Nantwich 5294
Neston			
Norley	Miss I. E. Belsham*	Nurse's Bungalow, Crabmill Lane, Norley	Kingsley 265
Odd Rode	Miss M. A. Wood*	2, Drenfell Road, Scholar Green	Kidsgrove 466
Poynton	Mrs. W. Wareing*	11, Brookside Avenue, Poynton	Poynton 2137
Prestbury	Miss M. A. Wright*	7, Bollinside, Prestbury	Prestbury 8464
Rainow	Miss E. Lythgoe*	Oakwood, Chapel Lane, Rainow	Bollington 2184
Romiley	Miss F. W. Gowan*	9, Carlton Avenue, Romiley	Woodley 2851
Runcorn	Mrs. E. Booth	4, Halton View, Weston, Runcorn	Runcorn 2342
	Mrs. F. Fowles	26, Hazel Avenue, Runcorn	Runcorn 2849
Sale	Mrs. J. E. Livesey	8, Lynden Grove, Runcorn	Runcorn 3260
	Miss E. M. Newbegin	22, St. George's Road, Sale	Sale 7033
Sandbach	Mrs. W. F. Råad	107, Royton Avenue, Sale	Sale 6135
	Miss E. M. Deane*	5, Elworth Street, Sandbach	Sandbach 256
Sandiway	Miss G. Evans*	5, Elworth Street, Sandbach	Sandbach 256
		The Cottage, Glebe Road, Cuddington, Nr. Northwich	Sandiway 252
Saughall	Miss B. M. Corlett*	Sea Hill Farm, Gt. Saughall	Saughall 233
Shavington	Miss L. E. Denison*	Sundour, Park Estate, Shavington, nr. Crewe	Crewe 7234

HOME NURSES (contd.)

District	Nurse	Address	Tel. No.
Stalybridge	Mrs. A. Waite	68, Stocks Lane, Stalybridge	
	Mrs. E. H. Slater	295, Huddersfield Road, Stalybridge	Stalybridge 2448
	Mrs. E. Garside	Spring Bank Cottage, Kay Street, Stalybridge	Stalybridge 2288
Stapeley		41, London Road, Stapeley	Nantwich 5570
Stockton Heath	Miss H. M. Davies	68, Mill Lane, Stockton Heath	St'k'on Heath 1489
Stretton	Mrs. E. M. Reed*	Hillcrest, Hatton Lane, Stretton	Norcott Brook 279
Tarporley	Mrs. M. Stewart*	99, High Street, Tarporley	Tarporley 153
Tattenhall	Mrs. M. Jenkinson*	2, Rosemary Row, Tattenhall	Tattenhall 313
Tilston	Miss N. Priest*	Fern Lea, Tilston, Malpas	Tilston 249
Timperley	Miss J. Ferguson*	15, Thorley Drive, Timperley	Ringway 2139
	Miss R. Miller*	26, Grove Lane, Timperley	Ringway 3495
	Miss M. D. Carter	26, Grove Lane, Timperley	Ringway 3495
Upton	Mrs. J. E. Randall	24, Acres Lane, Upton Heath	
Vicars Cross and Hoole	Mrs. L. Crawford	86, Faulkner Street, Hoole, Chester	Chester 22835
Weaverham	Mrs. H. Dudley*	55, Northwich Road, Weaverham	Weaverham 60
	Miss J. Wolahan*	49, Wallerscote Road, Weaverham, Northwich	Weaverham 116
West Kirby	Miss J. Howes	27, Burlingham Avenue, Grange, West Kirby	Hoylake 1203
Wheelock	Miss E. E. Gerrard*	639, Crewe Road, Wheelock, Sandbach	Sandbach 281
Willaston (Wirral)	Miss G. Lloyd*	The Grey Cottage, Hooton Road, Willaston, Wirral	Willaston 112
Willington	Miss F. Gavin*	9, Carter Avenue, Kelsall	Kelsall 286
Wilmslow	Miss E. B. Grindrod*	10, Hawthorn Walk, Wilmslow	Wilmslow 5525
	Miss M. Rawlinson*	17, Bourne Street, Wilmslow	Wilmslow 2615
Winnington	Miss A. K. Keates*	The Ley, Winnington, Northwich	Northwich 4529
Winsford	Miss I. E. Bremner*	92, Weaver Street, Winsford	Winsford 2228
	Miss M. S. Simpson*	92, Weaver Street, Winsford	Winsford 2228
	Miss B. J. Gibson	92, Weaver Street, Winsford	Winsford 2228
Wistaston	Miss S. G. Black*	31, Coppice Road, Willaston, Nantwich	Crewe 7109
Witton	Mrs. I. Owen	"Dinastre", Lime Av., Leftwich	
Worleston	Mrs. R. E. Fort*	Laundry Cottage, Rookery Park, Worleston, Nantwich	Nantwich 5941

Headquarters Staff

Assistant Superintendent of Home Nursing—

Relief	I. N. Vaughan	Cartref, Wcst Road, Weaverham	Weavcrham	330
	Mrs. E. Mason*	20, Berwyn Drive, Heswall	Heswall	1304
	Mrs. M. E. Cottrell	Noyna, Burton Road, Neston	Neston	1126
	Mrs. F. Penman	53, Avonlea Road, Sale	Sale	4144
	Mrs. A. F. Walker	4, Astbury Lane Ends, Congleton	Congleton	2004

COUNTY MIDWIVES (71)

No.	Name	Address	Telephone
1	Miss M. Williams	1, Trinity Road, Hoylake	Hoylake 3084
2	Mrs. E. Jemmett	58, Gresford Avenue, West Kirby	Hoylake 1552
4	Mrs. M. Boothroyd	20, Larchwood Drive, Woodhey, Bebington	Rock Ferry 2303
5			
6	Mrs. M. Uytendhal	19, Bolton Road East, New Ferry	Rock Ferry 2301
7	Mrs. M. E. Wright	Fernbank, 4, Bromborough Road, Bebington	Rock Ferry 40
8	Mrs. R. Baines	Sunnymede, Liverpool Road, Neston	Neston 325
9	Miss E. Bowyer	382, Chester Road, Little Sutton	Hooton 2483
10	Mrs. M. H. Bendell	14, Queen's Avenue, Ellesmere Port	E. Port 1982
11	Mrs. V. E. Corson	Dormy, Wilkinson Street, Ellesmere Port	E. Port 146
12	Mrs. E. Evans	85, Grace Road, Ellesmere Port	E. Port 1188
13	Mrs. A. E. Williams	6, York Road, Ellesmere Port	E. Port 329
14			
15	Mrs. E. McAllister	73, Green Lane, Vicars Cross, Chester	Chester 35637
16	Miss I. B. Jones	18, Bache Avenue, Liverpool Road, Chester	Chester 21097
17	Miss F. M. Stanley	10, Stanley Villas, Runcorn	Runcorn 2556
17a	Miss E. M. Grice	141, Weston Road, Weston, Runcorn	Runcorn 3602
18	Miss E. Edwards	141, Weston Road, Weston, Runcorn	Runcorn 3602
19	Miss P. Noon	10, Stanley Villas, Runcorn	Runcorn 2556
20	Miss B. Smith	34, Russell Road, Runcorn	Runcorn 2013
21	Miss J. Elliott	3, Clarence Road, Grappenhall	Grappenhall 384
22	Mrs. A. J. Carroll	1, Stetchworth Road, Walton, Warrington	St'kton Heath 611
23	Mrs. N. Jones	71, East Avenue, Rudheath, Northwich	Northwich 3020
23a	Mrs. E. Sherratt	Cartmel, London Road, Northwich	Northwich 2771
24	Miss A. Orme	95, Victoria Road, Northwich	Northwich 3025
25	Mrs. M. Court	117, Delamere Street, Over, Winsford	Winsford 2311
26	Mrs. A. E. Hough	Beaumont, St. Ann's Road, Middlewich	Middlewich 167
27	Miss E. A. Bimson	20, Gatefield Street, Crewe	Crewe 2239
27a	Mrs. S. A. Christmas	195, Gainsborough Road, Crewe	Crewe 3345
28	Miss D. Broad	234, Hungerford Road, Crewe	Crewe 2495
28a	Miss M. Beatty	199, Edleston Road, Crewe	Crewe 3701
29	Miss K. Beech	23, Minshull New Road, Crewe	Crewe 2826
29a			
30	Mrs. E. Weston	19, Nelson Street, Crewe	Crewe 3110
31			
31a	Mrs. M. Wilson	152, Holland Street, Crewe	Crewe 2875
33	Mrs. A. Williams	2, Bankside Court, Alsager, Stoke-on-Trent	Alsager 253
34	Miss J. Pike	96, Booth's Hill Road, Lymm	Lymm 725
36	Mrs. I. E. Thompson	6, Lansdowne Road, Sale	Sale 1140
37			
38	Mrs. D. Lindley	65, Derbyshire Road South, Sale	Sale 4383
39			
40	Miss A. Whittle	220, Manchester Rd., Broadheath, Altrincham	Altrincham 1484
41			
43	Mrs. M. A. Fittes	Dunham Woodhouses, Dunham Massey	Altrincham 0056
44	Mrs. E. Starkey	1, Bancroft Road, Hale	Ringway 4653
45	Miss D. Harper	Cranford, Bradwall Road, Sandbach	Sandbach 273
46	Mrs. M. Williams	30, The Westlands, Congleton	Congleton 690
47	Miss D. H. Wright	Ewanrigg, Giantswood Lane, Congleton	Congleton 240
48			
49	Miss A. Gray	11, Demmings Road, Cheadle	Gatley 2994
49a	Miss F. Bradley	12, Lorna Road, Cheadle Hulme	Hulme Hall 820
50	Miss F. W. Hampson	335, London Road, Hazel Grove	Stepping Hill 3131
51			
52	Mrs. B. J. Whittaker	12, Garden Street, Macclesfield	Macclesfield 3766
53	Miss E. E. Hancell	64, High Street, Macclesfield	Macclesfield 4344
54	Miss G. H. Robinson	249, Peter Street, Macclesfield	Macclesfield 3321

COUNTY MIDWIVES (contd.)

No.	Name	Address	Telephone
55	Miss E. Fairclough	19, Nicholson Avenue, Macclesfield	Macclesfield 3322
56	Mrs. D. Tomlinson	7, Glegg Street, Macclesfield	Macclesfield 2073
57	Mrs. A. D. Hall	47, Taylor Street, Hollingworth	Mottram 3214
58	Miss M. Regan	21, Shakespeare Avenue, Millbrook, S'bridge	Stalybridge 2151
59	Miss N. Robinson	6, Acres Lane, Stalybridge	Stalybridge 2821
60	Mrs. F. Dent	16, Ash Grove, Stalybridge,	Stalybridge 2281
62	Miss A. Lees	41, Armadale Road, Dukinfield	
63	Miss L. Bradley	3, Clarendon Street, Dukinfield	
64	Miss L. Kitchen	7, Elm Grove, Hyde	Hyde 789
65	Miss L. Sambrook	57, Woodfield Avenue, Hyde	Hyde 786
66	Miss K. A. Johnson	11, Shaw Hall Avenue, Hyde	Hyde 1160
66a	Miss M. P. Schofield	Woodhaven, Woodend Lane, Hyde	Hyde 739

COUNTY DENTAL NURSES (5)

D. Babington	211, Fog Lane, Didsbury, Levenshulme, Manchester, 19.
D. Comyn	Spring Villa, Upton Park, Chester.
H. Howarth	700 Borough Road, Birkenhead
M. A. Ramsbottom	26, Siddall Road, Bramhall
G. Rees	46, George's Crescent, Grappenhall, Warrington.

COUNTY DENTAL ATTENDANTS (19)

M. Aspden	27, Bramhall Park Road, Bramhall, Stockport.
J. Bartley	27, Tarvin Road, Chester.
E. M. Brown	The Cottage, Ashley Heath, Hale.
M. Carter	12, Hillfield Gardens, Nantwich.
E. I. Cooke	250, Birch Lane, Dukinfield
I. Cunningham	15, Esher Road, New Ferry.
H. Davey	Upton Bank Mill Lane, Upton-by-Chester.
D. Fellowes	30, Raby Drive, Moreton, Wirral.
B. Forsyth	3, Wellington Villas, Crewe.
E. Halligan	211, Bedford Street, Crewe.
A. Kealey	The Ley, Winnington, Northwich.
P. Lewis	Flat 3, 47, Broad Street, Sale.
E. M. Nicholls	Greenroofs, Nantwich Road, Middlewich.
L. P. Rees	86, Bond Street, Macclesfield.
S. M. Rivett	152a, Woods Moor Lane, Stockport.
K. M. Shaw	Radnor, Holmesville Avenue, Congleton.
D. Smith	59, Hoole Road, Chester.
B. Snelling	8, West Street, Congleton.
M. Watkin	7, Southway, Gladstone Road, Altrincham.

AUTHORISED OFFICERS FOR MENTAL HEALTH

No. and District	Name	Office	Residence
1 Wirral	E. M. Harborow	218, Bebington Road, Bebington (Tel. Rock Ferry 1155)	6a, Queens Road, Hoylake (Tel. Hoylake 3071).
2 West	I. A. R. Kingaby	11b, Newgate Street, Chester (Tel. Chester 24520)	15, Durban Avenue, Christleton, Chester (Tel. Chester 35113).
3 Runcorn	F. Sterry	District Offices, Waterloo Road, Runcorn (Tel. Runcorn 2608)	12, Weston Crescent, Runcorn (Tel. Runcorn 2426)
4 Mid-Cheshire	E. Platt	Brunner Guildhall, High Street, Winsford (Tel. Winsford 3346)	Kensyd, Delamere Street, Winsford (Tel. Winsford 3352)
5 Nantwich	F. H. Mills	21, Pillory Street, Nantwich (Tel. Nantwich 5256)	Northwood, Millfields, Nantwich (Tel. Nantwich 5545).
6 Crewe & Sandbach	R. E. Broach	1, Gatefield Street, Crewe (Tel. Crewe 2478)	180, Crewe Road, Alsager (Tel. Alsager 174)
7 Altringham & Sale	W. H. Driver	1, Claremont Road, Sale (Tel. Sale 2305)	32, Sefton Road, Sale (Tel. Sale 3408).
8 Bucklow & Wilmslow	R. Dixon	Bexton Road, Knutsford (Tel. Knutsford 506)	18, Stanley Road, Knutsford (Tel. Knutsford 506).
9 Macclesfield & Congleton L. W. Lyon		33, Great King Street, Macclesfield (Tel. Macclesfield 4908)	Ainsdale, Gawsworth Road, Maccles- field (Tel. Macclesfield 2976).
10 North-East	C. G. Owens	District Offices, 59b. Shaw Heath, Stockport (Tel. Stockport 4422)	Coniston, Goyt Crescent, Brinnington, Stockport (Tel. Stockport 3145).
11 Hyde & Stalybridge	J. Thompson	28, Pickford Lane, Dukinfield (Tel. Ashton 1128)	28, Pickford Lane, Dukinfield (Tel. Ashton 1128).

DAY NURSERIES

Altrincham M.B.	1, Gaskell Road (Tel. Altrincham 3621). <i>Matron</i> —Mrs. W. Helliwell
Bebington M.B.	New Ferry Road, New Ferry (Tel. Rock <i>Matron</i> —Mrs. F. G. Davies Ferry 1588).
	The Bradmoor, Bromborough (Tel. Brom- <i>Matron</i> —Mrs. L. Atkinson borough 1381)
Sale M.B.	Harley Road (Tel. Sale 4627). <i>Matron</i> —Mrs. E. Howitt
Congleton M.B.	Bradshaw House, Lawton Street (Tel. Congleton <i>Matron</i> —Mrs. H. E. Knight 282).
Dukinfield M.B.	Dewsnap Lane (Tel. Ashton-u-Lyne 3136). <i>Matron</i> —Mrs. C. T. Bell
Macclesfield M.B.	South Park, Poplar Road (Tel. Macclesfield 3751) <i>Matron</i> —Mrs. M. Dean
•	1, Glegg Street (Tel. Macclesfield 2813). Buxton Road (Tel. Macclesfield 2887). <i>Matron</i> —Miss R. A. Graham
	Nicholson Avenue, Hurdsfield <i>Matron</i> —Mrs. L. Potts (Tel. Macclesfield 4225)
Bollington U.D.	Buntings Field, Wellington Road (Tel. Boll. <i>Matron</i> —Mrs. I. Helme 3294).
Bredbury & Romiley U.D.	Highfield Park Road, Bredbury (Tel. Woodley <i>Matron</i> —Mrs. M. Gunn 2817).
Cheadle & Gatley U.D.	Park Road, Cheadle (Tel. Gatley 3106). <i>Matron</i> —Mrs. E. M. Applegate
Ellesmere Port U.D.	Whitby Road (Tel. Ellesmere Port 1357). <i>Matron</i> —Mrs. R. F. Chroston
	Chester Road, Little Sutton (Tel. Hooton 3297). <i>Matron</i> —Mrs. M. J. Broomfield
Hazel Grove & Bramhall U.D.	Queen's Road, Hazel Grove (Tel. Stepping Hill <i>Matron</i> —Miss F. H. Dunn 2048)
Northwich U.D.	Church Walk (Tel. Northwich 2421). <i>Matron</i> —Mrs. F. Pickering
Runcorn U.D.	Okell Street (Tel. Runcorn 2461). <i>Matron</i> —Mrs. M. Jones

WRENBURY HALL TUBERCULOSIS REHABILITATION CENTRE

Medical Superintendent—P. W. Edwards, M.B.E., M.B., Ch.B.
Warden—L. T. Burton

MOTHERS' AND BABIES' HOME

Prospect House, 7, Trinity Road, Hoylake (Tel. 1054)

Matron—Miss R. Barton

CENTRAL OFFICE

24, Nicholas Street, Chester (Tel. Chester 22305—3 lines).

REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1951

Section I.-Area and Population

Area

The acreage of the County at the end of 1951 was 622,808 acres.

Population

The population of the Administrative County, according to the preliminary report at the Census of 1951, was 824,438. The estimate of the Registrar-General for mid-1951 was 822,800.

Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/51 was £5,416,432. A penny rate over the whole County for 1951-52 represented the sum of £21,557 (estimated).

Health Service Premises.

The following is a brief summary of the major works commenced or completed in the above year. In addition, many minor adaptations and improvements have been carried out at various buildings, and the normal programme of maintenance work has continued.

CHILD WELFARE CENTRES.

Erection of new Centres at Cheadle, Heswall and Neston
Adaptations at Runcorn, Rydal Mount and Aulderwood

do. Frodsham, Chapel-on-the-Rock

Pram Shelter at Hollingworth

Adaptations to Nantwich, The Dowery

AMBULANCE DEPOTS

Erection of Garage at Crewe

Petrol Pump and Tank at Northwich, Hartford Hill

Improvements to Garage at 21, Pillory Street, Nantwich

DAY NURSERIES

Additional accommodation at Dukinfield and Runcorn

HOUSES

Erection of Garages at Bickley and Walgherton

M.D. OCCUPATION CENTRE

Adaptations at Grove Road, New Ferry

TUBERCULOSIS—AFTER CARE

Erection of New Hostel block

OFFICES

Conversion of outbuildings to form offices for Divisional

Medical Officer at rear of Hazel Grove Welfare Centre

Section II.-Births and Deaths

The figures are for the Administrative County, 1951.
unless otherwise stated.

Live Births :—

	Total.	Male	Female
Legitimate	11524	5904	5620
Illegitimate	429	229	200

Birth Rate per 1,000 of the estimated resident population:
14·5.

	Total.	Male	Female
Stillbirths	281	146	135

Stillbirths Rate per 1,000 total (live and still) births, 22·97.

	Total.	Male	Female
Deaths	10768	5435	5333

Death Rate per 1,000 of population, 13·1.

The principal causes of death were as follows:—

Disease.	No. of Deaths.	Rate per million population.
Heart Disease	3621	4400
Malignant Diseases	1585	1926
Vascular lesions of nervous system	1506	1830
Pneumonia	362	440
Tuberculosis (all forms)	181	220
Pulmonary	149	181
Non-Pulmonary	32	39
Nephritis	134	163
Bronchitis	612	744

The deaths from the chief zymotic diseases were as follows:—

Disease.	No. of Deaths.	Rate per million population.
Diphtheria	—	—
Whooping Cough	6	7
Measles	6	7
Gastritis, Diarrhoea and Enteritis	41	50

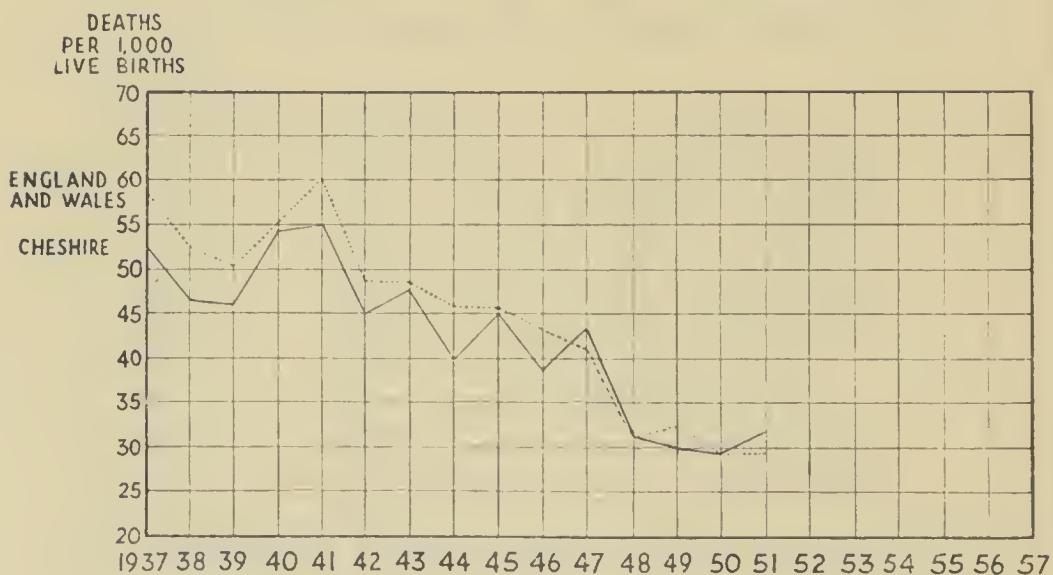
The zymotic Death Rate was 0·06 per 1,000.

Infantile Mortality:—

		Under 1 year	Under 4 weeks
Deaths of Infants in the Administrative County during 1951	.....	378	255
Legitimate	.....	361	242
Illegitimate	.....	17	13
All Infants per 1,000 live births	.....	31.6	21.3
Legitimate Infants per 1,000 legitimate live births	.....	31.3	21.0
Illegitimate Infants per 1,000 illegitimate live births	.....	39.6	30.3

The figures for deaths under one year in recent years are shown in the following diagram:—

INFANTILE MORTALITY



Deaths from Puerperal Causes:—

Deaths.	Rate per 1,000 total (live and still) births.
Pregnancy, Childbirth, Abortion	13 1.1

Section III.-Vaccination and Immunisation

Under Section 26 of the National Health Service Act, 1946, the County Council has the duty of making available a full service of vaccination against smallpox and of immunisation against diphtheria.

It is hoped that the attention now devoted to Health Services in general, and to this aspect in particular, will result in a considerable increase in vaccination, just as it has served to secure a wide response to the offer of immunisation wherever this was available. Immunisation is, in practice, meant for children, with particular attention to those under 5, but vaccination may on occasion be sought by persons of any age.

Arrangements made under the Council's scheme include participation by general practitioners and sessions at clinics.

Agreement has been given to immunisation against whooping cough in areas where this is considered desirable by Divisional Health Committees, to which the organisation and management of the scheme has been devolved.

During the year 1951, the number of persons vaccinated was as follows:—

		<i>Vaccinated</i>	<i>Re-vaccinated</i>
Under 1 year	—	3510	25
Age 1 year	—	1105	19
Age 2—4 years	—	362	63
Age 5—14 years	—	331	284
Age 15 years and over	—	697	1796

During the same period the number of children who completed a full course of primary immunisation against diphtheria was as follows:—

Children under 5 years	—	—	8005
Children 5—14 years	—	—	1270
Total number of children who were given a secondary or reinforcing injection	—	—	7523

The number of children at 31st December, 1951, who had completed a full course of immunisation against diphtheria at any time before that date was as follows:—

	<i>Born in Year</i>		<i>Number</i>
	1951	—	863
	1950	—	5274
	1949	—	6657
	1948	—	7702
	1947	—	8449
	1942—46	—	38040
	1937—41	—	32246
Total	1937—51	—	99231

The estimated mid-year child population for the year 1951 was as follows:—

Under 5 years	—	—	66500
5—14 years	—	—	110831
Total under 15 years	—	—	177331

During the year 1951 the number of children who completed a full course of immunisation against whooping cough was as follows :—

Under 1 year	—	—	684
Age 1—4 years	—	—	1885
Age 5—14 years	—	—	336

Section IV.-Ambulance Service

From 5th July, 1948 the County Council was charged with the duty, under Section 27 of the National Health Service Act, 1946, to provide a comprehensive ambulance service throughout the County, and for the first time this was to be free of charge to persons carried; the duty included transport by car of persons who were unfit for public transport but did not need to be recumbent. The service is one which has been devolved for organisation and management within the approved estimates to Divisional Health Committees throughout the County.

All ambulances and staff controlled by County District Councils were taken over by the County Council, together with all premises which had been held solely for such use; suitable financial arrangements were made to continue the use of other premises. To meet the wishes of the Police Authority, the part-time police drivers were replaced, but arrangements were made to pay for the agency use of nearly all the Red Cross and St. John ambulances which with whole or part-time drivers and attendants, had provided a service before the appointed day. In addition, a supplementary arrangement was made with the Voluntary Car Service which, originally organised during the war, had been continued and paid for by hospital authorities. Taxis and hired cars are also used as a supplementary service.

During 1951, 6 more Austin Hire Cars were delivered and the order placed in 1950 has now been completed by the receipt in early 1952 of the 3 cars outstanding. Of the 6 Bedford Lomas Ambulances ordered for delivery during the year 1951/2, 4 were received in 1951, and the other 2 in January, 1952. In March, 1951, orders were placed for 2 Austin Sheerline Ambulances, 4 Bedford Lomas Ambulances and 5 Austin Hire Cars, for delivery in 1952/3.

The arrangements by which the County Boroughs of Chester, Liverpool, Stockport, Manchester, and Warrington, and the Counties of Lancashire, Shropshire and Derbyshire provided an Ambulance Service in particular areas, or for special purposes, were continued, as was the arrangement whereby the County Borough of Liverpool and the County of Lancashire convey smallpox patients or others needing special disinfection.

For long distance journeys, use is made of the service provided by the Railway Executive for invalids, which comprises, for a small fee, a reserved compartment without payment of fares other than for the persons actually travelling. There are special arrangements for casual use, at an agreed fee, of other Authorities' ambulances, either at the far end of such a railway journey, or to meet special emergencies, and help is similarly given to other ambulance authorities.

The whole-time ambulance staff now approved consists of the following:—

Supervisors .....	.....	.....	8
Senior Drivers and Mechanics	.....	.....	10
Drivers .....	.....	.....	101
Attendants .....	.....	.....	38

The following schedule shews the work done by the service for the financial year 1951-2:—

ITEM. (1)	Directly Provided Service. (2)	Supplementary Service (including Hospital Car Service). (3)		Transport by Rail. (4)						
		(a) Ambulances	(b) Vehicles + passenger seats) Sitting Case + vehicles (up to 4 passenger seats)		(c) Vehicles + passenger seats) Sitting Case + vehicles (over 4 passenger seats)	(d) Vehicles + passenger seats) Sitting Case + vehicles (up to 4 passenger seats)	(e) Ambulances	(f) Total of all Vehicles	(g) Sitting Case + vehicles (over 4 passenger seats)	(h) Sitting Case + vehicles (up to 4 passenger seats)	(i) Total of all Vehicles
No. of operational vehicles on establishment at 31st March, 1952	52	.....	17	69	.....	.....	.....	.....	.....	.....
No. of patients carried	9,920	.....	336	10,256	876	414	1	1,291	.....	.....
(a) Accident or Emergency	96,982	.....	31,420	128,402	1,424	16,082	4,579	22,085	.....	44
(b) Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(c) Total of (a) and (b)	106,902	.....	31,756	138,658	2,300	16,496	4,580	23,376	.....	44
No. of journeys by vehicles	54,184	.....	14,267	68,451	1,919	7,887	2,159	11,965	.....	.....
(a) Patient carrying journeys	944	.....	394	1,338	14	61	2	77	.....	.....
(b) Abortive and service journeys	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(c) Journeys for transport of analgesia apparatus, midwives home nurses, etc.	960	.....	321	1,281	1	.....	.....	1	.....	.....
(d) Total of (a), (b) and (c)	56,088	.....	14,982	71,070	1,934	7,948	2,161	12,043	.....	.....
Total Mileage	817,255	.....	305,981	1,123,236	34,239	198,968	48,957	282,164	.....	6,359
Population of service area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Acreage of service area	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No. of ambulance stations—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Directly provided service	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

819,974*
620,600*

*Excludes Disley R.D.C. served wholly by Derbyshire C.C.
No. of ambulances stations—
Directly provided service

Section V.-Prevention of Illness, Care and After-care

General

Section 28 of the National Health Service Act, 1946, gives permissive powers to the County Council to make a scheme for prevention of illness, and for the care and after-care of persons suffering from illness. The County Council has a duty to make detailed arrangements for any disease the Ministry may specify. In this connexion, tuberculosis has been so specified, and much of the work, other than dispensary and institutional provision, which was carried out for many years under the County Tuberculosis Scheme, is being continued under the new powers.

The arrangements under this section of the Act are among those which for organisation and management, within the approved estimates, have been devolved to Divisional Health Committees.

Tuberculosis

Specialist Tuberculosis Officers, the main part of whose work at dispensaries passed to the Regional Hospital Boards on the appointed day, are part-time officers of the County Council, and give Divisional Medical Officers all necessary advice in the sphere of care and after-care, and Health Visitors pay home visits to tuberculosis patients and help to secure the attendance of contacts at the dispensaries. The loan of large items such as garden shelters, and the supply of smaller items such as sputum flasks, now form part of the general scheme for the provision of nursing equipment, of which details are given later.

Wrenbury Hall Industrial Training Colony has continued under the full ownership and control of the County Council, and arrangements are being made for considerably extending the scope of the training given.

During the year 1951, some 54 Cheshire trainees were admitted for industrial rehabilitation, and 33 from other local authorities. There are at present 21 colonists living in the hostel, of whom 5 are married, and 7 married colonists living with their families in cottages on the estate.

The following tables will enable a comparison to be made between 1951 and previous years in respect of the incidence of, and mortality due to, tuberculosis.

Tuberculosis Statistics

		1951	1950	1949
New cases notified	(primary)			
Pulmonary	—	432	461	442
New cases notified	(primary)			
Non-pulmonary	—	114	121	123
Total	—	546	582	565
No. of cases remaining on Registers of Notifications kept by District M.O's.H., December 31st	—	4813	4937	4938
No. of Deaths from all forms of Tuberculosis	—	181	195	266
Death-rate from all forms of Tuberculosis per 1,000 of the population	—	0.22	0.24	0.33

Table relating to Tuberculosis in children under 16:—

Year	Number of Children notified as suffering from Pulmonary Tuberculosis	Number of Children notified as suffering from Non-Pulmonary Tuberculosis	Percentage of Total Notifications	
			Pulmonary	Non-Pulmonary
1942	21	149	4.6	58.4
1943	17	126	3.7	57.3
1944	20	143	3.9	64.4
1945	14	124	2.9	65.6
1946	12	82	3.2	58.6
1947	20	121	4.3	62.1
1948	24	101	5.4	63.9
1949	21	73	4.8	59.3
1950	24	59	5.2	48.8
1951	30	63	6.9	55.3

Table showing primary notifications and deaths from Tuberculosis since 1st February, 1913, when compulsory notification began in Cheshire.

Year	Primary notifications	Deaths	Death rate per 1,000 population
1913	1224	651	1·04
1914	1293	655	1·05
1915	1001	677	1·12
1916	999	677	1·18
1917	770	671	1·18
1918	770	744	1·35
1919	789	592	·98
1920	892	578	·92
1921	908	527	·83
1922	786	550	·86
1923	850	488	·76
1924	1016	512	·79
1925	883	510	·78
1926	939	489	·73
1927	892	488	·73
1928	932	499	·74
1929	917	465	·69
1930	838	438	·64
1931	802	438	·64
1932	751	460	·66
1933	754	389	·57
1934	765	377	·54
1935	739	367	·52
1936	752	348	·49
1937	799	373	·52
1938	802	360	·49
1939	709	358	·48
1940	674	403	·52
1941	740	402	·52
1942	713	302	·40
1943	685	339	·46
1944	734	332	·45
1945	669	302	·41
1946	510	310	·40
1947	655	296	·38
1948	601	279	·35
1949	565	266	·33
1950	582	195	·24
1951	546	181	·22

The 1951 deaths are made up as follows:—

	Male	Female	Total
Pulmonary ..	104	45	149
Non-Pulmonary ..	18	14	32
	—	—	—
	122	59	181
	—	—	—

Death Rates, 1951.

All forms .22 per 1000 of population.

Pulmonary .18 per 1000 of population.

Non-Pulmonary .04 per 1000 of population.

Summary of Notifications during the period from the 1st January, 1951, to the 31st December, 1951.

PART I.—

FORMAL NOTIFICATIONS

Number of Primary Notifications of new cases of tuberculosis

Age Periods	0-	1-	2-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	Total (all ages)
Respiratory, Males	—	1	2	6	3	18	28	57	48	46	44	17	1	271
,, Females	—	—	4	6	8	24	30	45	21	14	3	5	1	161
Non-respiratory,														
Males	1	3	7	12	10	7	2	4	3	2	2	2	—	55
,, Females	—	2	10	13	5	7	5	9	4	1	3	—	—	59

PART II.—New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

B.C.G.

The County Council's proposals under Section 28 of the National Health Service Act, 1946, for B.C.G. vaccination against tuberculosis were approved by the Minister on 24th October, 1949. They provided for B.C.G. vaccination, by and at the instance of a physician with specialist knowledge and experience of tuberculosis, of contacts of patients suffering from tuberculosis, such contacts being found by medical tests to be capable of receiving protection from tuberculosis as a result of B.C.G. vaccination.

Such physicians with specialist knowledge and experience of tuberculosis were the chest physicians employed by the Regional Hospital Board, towards whose salary the County Council pay a specified proportion.

Nine of the Divisional Medical Officers have received instruction in the technique and methods of B.C.G. vaccination and have been approved for this purpose.

One of the biggest problems in providing B.C.G. vaccination has been the segregation for six weeks before and six weeks after vaccination, but this has been overcome usually by making arrangements with friends or relations of the child to be vaccinated, and in exceptional cases the Children's Committee has provided accommodation in the County Children's Homes. Acting on the principle that the absence of facilities for segregation should not preclude a mantoux negative contact from being vaccinated by B.C.G., the principle is adopted of vaccinating forthwith if after a fortnight's effort segregation is not found to be practicable.

At the onset of the scheme some delay was experienced before supplies of B.C.G. were received by the chest physicians. It was therefore only in March, 1950, that the scheme could really be commenced, and during the remainder of the year some 34 cases were thus vaccinated.

During 1951, the chest physicians vaccinated 167 cases under the scheme. In addition to these, certain new-born infants were vaccinated at St. Mary's Hospital, Manchester, through special arrangements made by the Professor of Child Health at Manchester University. During 1951, some 244 babies born to Cheshire mothers were thus vaccinated. Special arrangements have been made at Clatterbridge Hospital whereby newly born children of tuberculous parents can be transferred for post-vaccination segregation to a convalescent home maintained in connection with the Hospital.

**Statement giving Particulars of
Public Health Laboratory**

Year	From Patients for T.B.								Milk from Cows for T.B.			
	Sputa		Sputa Concentration Method		Other Specimens		Hair for Ringworm		Cultures		Microscopic Exams.	
			Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.
1942	549	2774	11	310	15	329	4	9	....	....	2	115
1943	591	3021	11	212	13	262	1	5	....	....	4	154
1944	548	2651	9	161	21	213	1	6	....	....	1	182
1945	540	2335	4	54	13	113	....	2	....	....	....	4
1946	501	2253	7	81	14	148	....	....	....	....	2	39
1947	524	2258	1	88	9	153	....	....	....	....	4	73
1948	474	1744	....	67	5	141	....	....	....	....	2	222
1949	8	53	....	....	....	....	....	....	....	....	2	291
1950	7	19	....	....	....	....	....	....	8	1501	5	1504
1951	3	8	....	....	....	....	....	....	....	....	....	—

Total number of examinations made during the year 1951—

	Pos.	Neg.
Patients' sputa for T.B. Examination	....	3
Milks :		8
Cultures for Coliform bacilli	....	139
		3099
	Failed	Passed
Aschaffenburg Test (Pasteurised milks)	11	1448
Clot on boiling test	—	3451
Phosphates test	....	24
Reductase test	....	1
Turbidity test (sterilised milks)	—	3442
		134

**Specimens Examined in County
during the Years 1942 to 1951**

Examinations of Milks

Cultures for Coliform Bacilli	Clot on Boiling Test	Reductase Test	Coliform Test	Phosphatase Test	Plate Count	Turbidity Test for Sterilised Milk	Aschaffenburg Test for Pasteurised Milk	Total Number of Examinations made
.....	12370	8611	2	2	.....	.....	25129
.....	13467	7044	12	12	.....	.....	24809
.....	12400	6294	.....	3	.....	.....	22490
.....	12726	9381	219	138	.....	.....	25529
.....	13529	10303	317	7	.....	.....	27201
.....	12682	10167	373	2	.....	.....	26334
.....	13330	11128	447	8	.....	.....	27568
.....	9400	6764	530	1	.....	.....	17049
.....	1121	.....	1201	.....	51	.....	5417
3238	3451	3443	.....	3454	.....	134	1459	15190

Mental Illness

The care and supervision of patients at home suffering from mental illness or defect is carried out by Health Visitors and Authorised Officers, and arrangements are made, in suitable cases, for help to be given by other County services, such as Home Nursing and Domestic Help.

Other Illnesses

Liaison has been secured with the Almoners and other appropriate officials of hospitals so that discharged patients requiring help from any of the County Health Services may secure it without delay.

Another aspect of "care" is the investigation of "problem families" with a view to effecting any possible improvement and granting any appropriate help, *e.g.*, the loan of bedding.

An important aspect of "prevention of illness" is health education, and appropriate publicity under this heading is carried out locally.

Nursing Equipment

Stocks of nursing equipment are held by District Nurses and by Divisional Medical Officers for loan to patients needing them, subject to a small deposit charge, and a weekly hire payment in the case of the more expensive items. Examples of the small items normally kept by District Nurses are urinals, hot water bottles, bed pans, feeding cups, sputum flasks, steam kettles, air rings and back rests; the larger items stored by the Divisional Medical Officers include crutches, bath chairs, spinal carriages and water beds.

Shelters for the use of tuberculosis patients are issued by the County Medical Officer and transferred by the County Surveyor's Department, in accordance with recommendations made by the Chest Physicians, and confirmed, after investigation of the site, by the Divisional Medical Officer. Bedding is also kept for issue in special cases, *e.g.*, when a patient's small stock has to be taken away for disinfection or disinfestation, or to provide for house isolation of patients.

Infectious Disease

In order that Divisional Health Committees may have a continuous picture of the incidence of infectious disease in their areas, Divisional Offices receive full particulars of notified cases, and the County Council repays to District Councils, in accordance with the National Health Service Act, the notification fees paid to doctors. The following table gives the number of cases notified under the various headings during the year 1951.

		Scarlet Fever	Whooping Cough	Poliomyelitis Paralytic	Poliomyelitis Non-Paralytic	Measles	Diphtheria	Pneumonia	Dysentery	Smallpox
Altringham M.B.		29	54	2	—	673	—	32	32	—
Bebington M.B.		71	200	3	1	293	—	57	27	—
Congleton M.B.		18	36	3	—	36	1	43	—	—
Crewe M.B.		84	114	—	—	1218	—	39	1	—
Dukinfield M.B.		20	8	1	—	228	—	50	1	—
Hyde M.B.		90	39	—	—	675	—	71	13	—
Macclesfield M.B.		44	12	—	—	94	1	53	36	—
Sale M.B.		75	22	—	—	601	—	14	44	—
Stalybridge M.B.		12	85	1	—	590	—	14	42	—
Alderley Edge U.D.		5	30	—	—	8	—	3	—	—
Alsager U.D.		1	16	3	—	56	2	13	—	—
Bollington U.D.		8	—	1	—	52	—	6	—	—
Bowdon U.D.		—	11	—	—	24	—	2	4	—
Bred. and Rom. U.D.		24	22	—	—	115	—	3	3	—
Cheadle and Gat. U.D.		45	93	1	—	297	—	30	10	—
Ellesmere Port U.D.		55	93	4	—	385	2	23	6	—
Hale U.D.		5	33	—	—	100	—	1	6	—
Hazel Grove and Bramhall U.D.		51	42	—	—	173	—	7	3	—
Hoole U.D.		17	45	—	—	56	—	4	—	—
Hoylake U.D.		31	77	4	—	122	—	61	5	—
Knutsford U.D.		4	17	—	—	24	—	—	—	—
Longdendale U.D.		2	10	—	—	47	—	8	1	—
Lymm U.D.		12	—	—	—	1	—	1	—	—
Marple U.D.		12	36	1	—	143	—	3	—	—
Middlewich U.D.		—	—	—	—	48	—	—	—	—
Nantwich U.D.		17	2	1	—	101	—	4	—	—
Neston U.D.		10	125	1	—	126	—	54	5	—
Northwich U.D.		13	89	—	—	302	—	34	13	—
Runcorn U.D.		41	41	—	1	204	—	16	—	—
Sandbach U.D.		8	9	—	—	22	—	4	—	—
Wilmslow U.D.		41	44	—	—	198	—	28	—	—
Winsford U.D.		14	1	—	—	6	—	—	—	—
Wirral U.D.		4	178	1	—	145	—	18	12	—
Bucklow R.D.		7	22	—	—	94	—	1	—	—
Chester R.D.		14	40	—	1	238	—	44	27	—
Congleton R.D.		18	21	3	—	130	1	17	2	—
Disley R.D.		—	1	1	—	39	—	1	—	—
Macclesfield R.D.		19	10	1	—	141	1	17	1	—
Nantwich R.D.		30	128	2	—	414	—	42	56	—
Northwich R.D.		25	185	—	1	718	—	42	4	—
Runcorn R.D.		15	119	1	—	248	—	32	5	—
Tarvin R.D.		15	34	—	—	297	—	47	22	—
Tintwistle R.D.		1	—	1	—	9	—	1	—	—
TOTAL		1007	2144	36	4	9491	8	941	381	—

Section VI.-Mothers and Young Children Health Visiting, etc.

General

The County Council's responsibilities under Sections 22 and 24 of the National Health Service Act, 1946, are in the main a continuation of work which has been done for many years, though the Health Visitors' services are now used to carry out the Council's schemes for mental health, after-care, and handicapped persons.

Number of Health Visitors employed (part-time as such) at end of year	Equivalent whole-time H.V. services provided (all classes, including Welf. Centres)	Number of visits paid by Health Visitors during the year							
		Expectant Mothers		Children under 1 year		Children 1—5 years		Other Cases	
First Visits	Total Visits	First Visits	Total Visits	First Visits	Total Visits	First Visits	Total Visits	First Visits	Total Visits
92	65	3530	6060	12505	80194	7833	105466	8757	22931

Premature Infants

Particular attention is devoted to babies weighing $5\frac{1}{2}$ lbs. or less at birth, and special cots with bedding, hot water bottles, etc., are kept in readiness. 843 premature babies were born in the year under review, whose mothers normally live in the Authority's area, 212 at home and 631 in hospitals or nursing homes.

Ophthalmia Neonatorum

4 cases of Ophthalmia Neonatorum were notified during the year; all made good recovery.

Puerperal Pyrexia

35 cases of Puerperal Pyrexia were notified during the year, 16 being domiciliary and 19 institutional confinements.

Maternal Mortality

The maternal mortality for 1951, *i.e.*, number of deaths due to pregnancy, childbirth or abortion, per 1,000 live and still births, was 1.1.

Ante-Natal and Post-Natal Clinics

All ante-natal and post-natal clinics conducted by the County Council before 5/7/48 have been continued, together with those established by the previously independent Authorities. The

Regional Hospital Boards have agreed to pay for a proportion of the sessions attended by specialist obstetricians. In some areas there are other doctors' clinics, and in some districts midwives' clinics have been established.

The following Tables give particulars of doctors' clinics held during 1951:--

	ANTE-NATAL			POST-NATAL		
	Sessions	Attend- ances	New Cases	Sessions	Attend- ances	New Cases
Altrincham†§	46	118	35	10	15	15
Bebington (New Ferry)	100	1291	244	27	37	25
Cheadle	51	953	152			
Congleton	24	103	32	12	80	19
Ellesmere Port	102	2615	485	*36	63	63
Hale†	12	21	8			
Hazel Grove	51	532	240			
Hoole	24	100	41	*12	89	54
Hyde†	47	180	38			
Northwich	49	1297	214			
Macclesfield†	48	936	320			
Runcorn	51	960	336	*14	18	15
Sale	26	151	54	11	19	6
Stalybridge	36	239	43	*11	37	27

† Non-Specialist. ‡ at 3 Centres. § at 2 Centres.

* Joint ante- and post-natal sessions.

Dental Care

Increasing importance is now attached by the Ministry of Health to the provision of dental services for expectant and nursing mothers, and for young children. Facilities will be extended as opportunity offers, subject to the availability of necessary staff.

DENTAL REPORT

The separate clinics for mothers and young children were discontinued in 1950 owing to the small attendances and shortage of staff. These cases are now dealt with during School Dental clinic sessions and all cases referred receive treatment.

All necessary treatment required is carried out, and if necessary with local or general anaesthetic.

All dentures are set up by a mechanic and impressions and fittings carried out by the dental surgeon.

Only one clinic possesses an X-Ray apparatus, and at all other clinics, arrangements are made with the local hospital.

The following details show the work done during the year 1951:—

	Expectant Mothers	Nursing Mothers	Children under 5 years
(a) <i>Numbers provided with Dental Care.</i>			
Examined	51	44	753
Needing Treatment	49	44	693
Treated	47	43	690
Made Dentally Fit	29	31	625
Total Attendances	77	151	785
(b) <i>Forms of Dental Treatment Provided</i>			
Temporary Extractions			827
Permanent Extractions	88	161	—
Temporary Teeth Filled	—	—	215
Permanent Teeth Filled	50	56	—
Anaesthetics —Local	6	17	224
General	14	23	362
Partial Upper Dentures fitted	1	5	—
Full Upper Dentures fitted	2	7	—
Partial Lower Dentures fitted	1	1	—
Full Lower Dentures fitted	—	7	—
Scalings or Scaling & Gum Treatment	30	27	67
Silver Nitrate Treatment	—	—	27
Dressings	7	12	11
Radiographs	—	—	8

Artificial Sunlight Treatment

During the year 1951, the attendances by children under 5 at the sunlight clinics listed below were as follows:—

Dukinfield	—	769
Hyde	—	759
New Ferry	—	1092
Sale	—	569
Stalybridge	—	1937

Orthopaedic Scheme

The specialist orthopaedic sessions held at clinic premises were taken over financially by the Regional Hospital Boards, in the same way as those held at hospital premises, and suitable financial arrangements were made for the few clinics where physiotherapy was only partly under specialist supervision.

The following shews the attendances made during 1951 at such clinics (excluding those for sunlight only) by children under 5:—

Congleton	—	206	New Ferry	—	292
Crewe	—	271	Northwich	—	81
Dukinfield	—	345	Runcorn	—	189
Ellesmere Port	—	416	Sale	—	391
Hoylake	—	134	Stalybridge	—	552
Hyde	—	589	Stockton Heath	—	61
Macclesfield	—	717			

Welfare Foods

The financial arrangements involved in the supply of infant foods at Welfare Centres are now mainly in the hands of Divisional Medical Officers; previously, for the old County area, they were dealt with by the voluntary committees, whose valued help in the various aspects of centre work is being continued.

Day Nurseries

Details of the 18 Day Nurseries now maintained by the County Council are given on page 28. The following Table shows the position at the end of 1951:—

No. of Nurseries	No. of Places		No. of Children on register		Average daily attendance	
	0—2	2—5	0—2	2—5	0—2	2—5
18	315	449	231	596	172	432

Care of Unmarried Mothers

Arrangements have continued whereby unmarried expectant mothers are admitted to voluntary institutions some time before the confinement, and return there with the baby for varying periods afterwards. The County Council's own Home at 7, Trinity Road, Hoylake, provides 12 beds and 8 cots, and 57 women were admitted during the year, staying approximately eight weeks before the birth and eight weeks afterwards. Of these nine were the responsibility of other local authorities. Responsibility was accepted at other homes and hostels for 26 mothers during the year.

Child Welfare Centres

The following Table gives particulars, as in previous years, of the sessions and attendances at Child Welfare Centres throughout the County:—

LIST OF INFANT WELFARE CENTRES, 1951.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Adswood	Fortnightly	1st and 3rd Monday	23	735	235	32
Alderley Edge	Weekly	Friday	51	2235	820	44
Alsager	Fortnightly	Tuesday	25	1203	278	48
Altrincham (The Mount)	Twice weekly	Monday & Wednesday	98	4768	575	49
Altrincham (Timperley)	Four times weekly	Tuesday a.m. & p.m. & Thursday a.m. & p.m.	198	8171	452	41
Antrobus	Fortnightly	1st and 3rd Wednesday	24	497	178	21
Audlem	Fortnightly	1st and 3rd Tuesdays	24	1003	336	42
Barnton	Fortnightly	2nd and 4th Wednesday	23	681	236	30
Barrow	Fortnightly	1st and 3rd Wednesday	24	301	152	13
Bebington (New Ferry)	Weekly	Wednesday	51	3556	740	70
Bebington (Bromboro')	Weekly	Thursday	52	1880	771	36
Bebington (Eastham)	Weekly	Monday	49	1468	257	30
Bebington (Thornton Hough)	Fortnightly	Friday	24	332	46	14
Bebington (Higher Bebington)	Weekly	Tuesday	51	2406	737	47
Bebington (Mayer Hall)	Weekly	Friday	51	1707	504	33
Bebington (New Ferry 'Toddlers')	Monthly	2nd Thurs.	9	86	73	10
Bollington	Fortnightly	2nd and 4th Thursday	24	924	289	39
Bowdon	Fortnightly	2nd and 4th Thursday	24	793	205	33
Bramhall	Fortnightly	1st and 3rd Monday	24	752	220	31
Bredbury	Weekly	Tuesday a.m. & p.m.	50	3147	1052	63
Broadbottom	Fortnightly	1st and 3rd Wednesday	24	780	195	33
Cheadle	Weekly	Tuesday	51	2965	833	58
Cheadle Hulme	Fortnightly	Tuesday	26	1272	382	49
Comberbach	Fortnightly	1st and 3rd Wednesday	23	673	252	29
Congleton	Weekly	Monday	49	2109	895	43
Crewe (Ludford St.)	Weekly	Thursday	51	3408	708	67
Crewe (Stalbridge Road)	Weekly	Monday	49	3137	535	64

LIST OF INFANT WELFARE CENTRES, 1951—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Davenham	Monthly	1st Monday	12	377	125	31
Disley	Fortnightly	Tuesday	26	646	164	25
Dukinfield	Twice weekly	Wednesday & Thursday	99	4236	1350	43
Ellesmere Port (York Road)	Weekly	Tues. & Fri.	115	4771	670	41
Ellesmere Port (Little Sutton)	Weekly	Monday	48	1731	251	36
Ellesmere Port (Overpool)	Fortnightly	1st and 3rd Thursday	24	597	161	25
Ellesmere Port (York Road Toddlers')	Monthly	1st Friday	13	111	81	9
Farndon	Fortnightly	1st and 3rd Tuesday	23	280	135	12
Frodsham	Fortnightly	Tuesday	27	858	318	32
Gatley	Fortnightly	2nd and 4th Thursdays	24	718	284	30
Grappenhall	Weekly	Tuesday	51	2493	655	49
Greasby	Fortnightly	Wednesday	26	917	213	35
Hale	Weekly	Wednesday	51	1683	184	33
Hale Barns	Fortnightly	1st and 3rd Thursday	24	610	137	25
Handforth	Fortnightly	2nd & 4th Monday	23	436	178	19
Hartford	Fortnightly	2nd & 4th Tuesday	23	781	199	34
Haslington	Fortnightly	Tuesday	26	739	340	28
Hazel Grove	Weekly	Tuesday	52	2417	579	46
Heald Green	Fortnightly	1st & 3rd Thursday	24	743	197	31
Helsby	Fortnightly	Tuesday	26	961	343	37
Heswall	Fortnightly	Monday	27	1455	314	54
High Lane	Fortnightly	Tuesday	25	645	190	26
Hollingworth	Fortnightly	1st and 3rd Thursday	24	1695	272	71
Holmes Chapel	Fortnightly	2nd and 4th Tuesday	23	853	340	37
Hoole	Weekly	Tuesday	52	1947	575	37
Hoole ('Toddlers')	Monthly	1st Thursday	12	114	70	10
Hoyle	Weekly	Thursday	52	3406	1131	66
Huntington	Fortnightly	2nd and 4th Wednesday	22	327	179	15
Hyde (Bayley Hall)	Twice weekly	Mon. & Fri.	99	4186	456	42
Hyde (Parsonage St.)	Twice weekly	Wed. & Thurs.	103	6339	1456	62
Irby	Fortnightly	Monday	27	969	271	36
Kelsall	Fortnightly	1st and 3rd Tuesdays	24	608	206	25
Kingsley	Fortnightly	2nd & 4th Wednesday	13	167	102	13
Knutsford	Fortnightly	Wednesday	26	1249	204	48

LIST OF INFANT WELFARE CENTRES, 1951—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Lower Peover	Fortnightly	2nd and 4th Monday	21	398	136	21
Lymm	Weekly	Tuesday	51	1979	542	39
Macclesfield (Gt. King St.)	Twice weekly	Mon. & Fri.	100	3112	940	31
Macclesfield (Gt. King St. Toddlers')	Weekly	Tuesday	46	650	195	14
Macclesfield (Hurstfield House)	Weekly	Thursday	52	3002	734	57
Macclesfield (Hurstfield House Toddlers')	Monthly	1st Tues.	11	164	83	15
Macclesfield (Sanders Square)	Weekly	Friday	51	2034	547	40
Macclesfield (Sanders Sq. Toddlers')	Weekly	Thursday	51	650	220	13
Malpas	Fortnightly	1st and 3rd Monday	24	434	216	18
Marple	Weekly	Wednesday	50	3111	431	62
Marple Bridge	Fortnightly	2nd and 4th Thursday	24	915	285	38
Mellor	Fortnightly	1st and 3rd Thursdays	24	635	210	26
Middlewich	Weekly	Monday	49	1574	675	32
Mohberley	Fortnightly	Tuesday	25	504	262	20
Moulton	Monthly	3rd Wed.	12	261	97	22
Mow Cop	Fortnightly	1st and 3rd Wednesday	24	143	137	6
Nantwich	Weekly	Thursday	51	1914	174	38
Neston	Weekly	Thursday	49	2293	354	47
Northwich (Darland House)	Weekly	Tuesday	51	1735	797	35
Northwich (Parkfield)	Weekly	Thursday	52	2606	1157	50
Over Peover	Fortnightly	1st and 3rd Monday	22	418	171	19
Partington	Fortnightly	1st and 3rd Thursday	24	476	135	20
Poynton	Fortnightly	1st and 3rd Thursday	24	1621	361	68
Prestbury (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	293	81	12
Rainow (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	485	143	20
Rode Heath	Fortnightly	1st and 3rd Monday	24	422	327	18
Romiley	Weekly	Thursday	51	1733	681	34
Runcorn	Twice weekly	Wednesday a.m. & p.m.	102	2660	931	26

LIST OF INFANT WELFARE CENTRES, 1951—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Runcorn — (Toddlers')	Monthly	1st Monday	9	83	81	9
Sale (Chapel Road)	Twice weekly	Tuesday & Thursday	107	6147	1792	57
Sale (Raglan Road)	Fortnightly	1st and 3rd Tuesday	24	1142	402	48
Sale (Chapel Road Toddlers')	Monthly	2nd Wednesday	12	287	146	24
Sale Moor —	Weekly	Thursday	50	2205	696	44
Sandbach —	Weekly	Tuesday	51	2197	937	43
Sandiway —	Fortnightly	1st and 3rd Tuesday	24	1190	199	50
Saughall —	Fortnightly	1st 3rd & 5th Monday	28	511	236	18
Scholar Green —	Fortnightly	2nd and 4th Wednesday	23	489	301	21
Shavington —	Fortnightly	2nd and 4th Tuesday	23	831	223	36
Stalybridge — (Mechanics' Institute)	Twice weekly	Tuesday & Wednesday	100	3882	1774	39
Stalybridge — (Millbrook)	Fortnightly	1st and 3rd Monday	24	727	416	30
Stockton Heath	Weekly	Monday	49	2016	494	41
Sutton —	Fortnightly	2nd and 4th Wednesday	22	377	107	17
Tarporley —	Fortnightly	2nd and 4th Thursday	22	774	247	35
Tarvin —	Fortnightly	2nd and 4th Wednesday	23	401	122	17
Tattenhall —	Fortnightly	2nd and 4th Monday	22	561	183	26
Tintwistle —	Fortnightly	2nd & 4th Thursday	24	465	129	19
Upton —	Weekly	Thursday	50	887	483	18
Weaverham —	Fortnightly	Tuesday	26	1076	317	41
West Kirby —	Weekly	Friday	51	3274	791	64
Willaston — (Wirral)	Fortnightly	1st and 3rd Fridays	24	463	192	19
Wilmslow —	Weekly	Thursday	51	2301	447	45
Winsford —	Weekly	Friday	51	2605	710	51
Winsford — (Toddlers')	Monthly	1st Thurs.	12	218	96	18

Nursing and Maternity Homes

The County Council has continued to be the registration Authority for private Nursing and Maternity Homes under Sections 187 to 194 of the Public Health Act, 1936, for the whole County, and the following details show the position for the year ended 31st December, 1951:—

No. on Register, 31/12/51	—	—	37
No. of inspections during 1951	—	—	42
No. of new homes registered in 1951	—	—	

Homes for Old People

On 1st November, 1949, the new regulations for registration and inspection of homes for old people came into effect, namely the National Assistance (Registration of Homes) Regulations, 1949. This work has also been carried out by the County Health Department, and the position for the year ended 31st December, 1951, is shown below:—

No. on Register, 31/12/51	—	—	9
No. of inspections during 1951	—	—	16
No. of new homes registered in 1951	—	—	1

Section VII.-Midwifery

General

A summary of the numbers involved is given below, further details on pp. 25-26, and general information relating both to district nurses who practise midwifery and to those who do not, in Section XI.

Number of Midwives in Practice

There were 318 midwives who notified their intention to practise in the County Area during 1951.

County Midwives.....	—	—	—	—	—	70
District Nurse Midwives.....	—	—	—	—	—	102
Independent Midwives.....	—	—	—	—	—	39
Practising in Private Nursing Homes.....	—	—	—	—	—	23
In Institutions.....	—	—	—	—	—	84

Inspection of Midwives

Visits paid by Senior Assistant Medical Officer.....	—	—	—	—	—	135
Visits paid by Assistant Supervisor of Midwives.....	—	—	—	—	—	
Inspection of County Midwives.....	—	—	—	—	—	197
Inspection of Independent Midwives.....	—	—	—	—	—	23

Cases visited—

Labours.....	—	—	—	—	—	5
Nursings.....	—	—	—	—	—	185
Antenatal.....	—	—	—	—	—	259
Postnatal.....	—	—	—	—	—	81
Pupil Midwives.....	—	—	—	—	—	16
Lectures to Pupils and Midwives.....	—	—	—	—	—	6

Cases attended by County Midwives and District Nurse Midwives

	LIVE-BIRTHS			STILL-BIRTHS		
	As Mid- wives	As Mater- nity Nurses	As Mid- wives	As Mater- nity Nurses	Mis-	carriages
Midwives.....	1464	741	—	42	—	112
District Nurse Midwives.....	1248	645	—	—	—	178
Total.....	2712	1386	—	42	—	290

Notifications received (Central Midwives Board Rules)

Medical Aid	.....	.....	.....	.....	.....	1051
Stillbirths	.....	.....	.....	.....	.....	118
Laying out the Dead	.....	.....	.....	.....	.....	38
Source of Infection	.....	.....	.....	.....	.....	30
Artificial Feeding	.....	.....	.....	.....	.....	623

Gas and Air Analgesia

(a) Number of domiciliary midwives practising in area 31/12/51, who were qualified to administer gas and air analgesia	.....	.....	.....	.....	.....	154
(b) Number of sets of apparatus in use by above, 31/12/51	.....	.....	.....	.....	.....	145
(c) Number of cases in which gas and air was so administered, 1951	.....	.....	.....	.....	.....	1581

Section VIII.-Food and Drugs Acts

Milk (Special Designations) (Pasteurised and Sterilised Milk) Regulations, 1949

Commercial pasteurisation of milk is subsidised by the Ministry of Food and is controlled by the above regulations which came into operation on the 1st October, 1949. These regulations relate to premises where milk is pasteurised or sterilised under licence by Food and Drugs Authorities, and in particular to the following:—

- I. The structural condition of such establishments, *i.e.*, lighting, ventilation, drainage, impervious floors and walls, provision of sanitary accommodation and washing facilities for the personnel, and the general cleanliness of the premises.
- II. The operation of the pasteurising or sterilising plant including the supervision of indication and recording thermometers shewing the temperature to which the milk has been raised, the periodical washing and sterilising of the processing plant, bottle filling and capping machines, milk churns, bottles, crates and vehicles used for the transportation of milk.
- III. The cleanliness of persons engaged in the handling, processing and distribution of milk.

There are twenty-six licensed establishments in the Administrative County (excluding the Borough of Crewe, which is a separate Food and Drugs Authority). They vary in size and character from the large establishments owned by important milk distributing firms to the small one-man business. Eight of the large establishments have their own laboratories in which periodical tests are made on raw milk as received from the farms, and the finished product as delivered to the consumer. Frequent tests are also made to check the efficiency of the sterilisation of the plant and equipment. Structurally the majority of these establishments are fairly satisfactory but a few are small and congested with plant and equipment making working conditions difficult. In such cases the owners have been advised to acquire or build larger and more suitable premises.

The purpose of a pasteurising plant is to subject milk to heat treatment so that all harmful bacteria are destroyed and its

keeping quality improved without affecting its nutritional properties. The regulations require pasteurised milk to be raised to a temperature of not less than 145 degrees F. for thirty minutes, or a temperature of not less than 161 degrees F. for fifteen seconds. There are two types of pasteurising plant in use. The Holder type is a covered glass-lined or stainless steel container surrounded by a water jacket. The water in the jacket is steam-heated, subject to automatic temperature control, whilst the milk in the container is mechanically agitated so as to ensure uniform heating. After being heated for the required period the milk is rapidly cooled to a temperature of not more than 50 degrees F. ready for bottling. Indicating and recording thermometers are a legal requirement. The charts of recording thermometers must be retained for a month for official inspection. These are essential in checking the efficiency of the plant or its operation. The Holder has a capacity of from 50 to 200 gallons. It is generally used by the small one-man business with a daily output up to two hundred gallons. Causes of unsatisfactory samples in this type of plant are due to inadequate heating of the milk for the prescribed period (sometimes caused by falling steam pressure), inaccurate or faulty thermometers, or a leaking outlet valve permitting un-pasteurised milk to leak forward from the Holder into the pipe-line leading to the cooler.

The High Temperature Short Time Plant—referred to in the dairy trade as the H.T.S.T. Plant—consists of a number of thin rectangular stainless steel plates, tightly clamped together by means of a screw tightening device. A rubber gasket round the edge of each plate forms a tight joint and leaves a cavity between each plate through which liquids can pass. By a system of inlet and outlet ports hot water circulates through the plant on one side of the plate whilst milk, pumped through the plant, passes on the other side. A temperature controlling device and flow regulator ensure that the milk is held at a temperature of not less than 161 degrees F. for fifteen seconds whilst passing through the plant in a continuous flow. In the intermediate heating and cooling sections the incoming cold raw milk is pre-heated by the outgoing hot pasteurised milk which gives up most of its heat in the process and effects a saving in steam and water consumption. During the processing of the milk it is filtered by being passed through specially woven filter cloths. Finally the milk is passed through the cooling section where by means of brine or chilled water it is cooled to a temperature of approximately 40 degrees F. ready for bottling. This type of plant is required to be provided with a device which will automatically divert the flow of any milk which has not been raised to the temperature required by the regulations.

In the process of sterilisation, raw milk from the farms is pre-heated to 165 degrees F., filtered and homogenised and filled hot into hot bottles discharged from a bottle washing machine at about 180 degrees F. Immediately after filling the bottles are hermetically sealed by means of crown corks and automatically fed into the steriliser. The sealed bottles travel on a conveyor through the steriliser. The temperature is gradually increased to 226 degrees F. under a pressure of six pounds per square inch, and held at that temperature in a holding chamber for thirty minutes. Cooling of the bottles is completed in three different stages to a temperature of about sixty degrees F., ready for packing into crates.

At the present time there is only one sterilising plant in the administrative county, which it is intended to duplicate shortly. Another sterilising plant is being installed in a large new dairy under construction at Hyde.

The sale of sterilised milk in the industrial areas is said to be increasing.

Official samples of pasteurised and sterilised milk are collected at frequent intervals and subjected to the tests prescribed by the regulations. Any unsatisfactory samples are investigated at the dairy premises and if necessary a field test is carried out by the laboratory staff of this department.

Tuberculous Milk

In connection with the ascertainment of tuberculous milk, 2712 samples were taken at farms by the County Sampling Officers during 1951, of which 133 proved to be positive.

Co-operation with the Ministry of Agriculture and with local Sanitary Authorities has continued, so as to ensure that the high standard of milk production in Cheshire shall be maintained and improved.

Samples for Analysis.

The Chief Inspector of Weights and Measures, Food and Drugs, etc. (Mr. Stacey Hallard) reports as follows on the work of his Department in relation to the administration of the adulteration provisions of the Food and Drugs Act, 1938.

Owing to the election of the new Council earlier this year there will no doubt be many Councillors who have not previously received a report of this nature and therefore it will be of

interest to point out that under the provisions of the Food and Drugs Act, 1938, the County Council is the "Food and Drugs Authority" for the whole of the County of Cheshire excepting the Municipal Borough of Crewe. Under the Act previously in force, *i.e.*, The Food and Drugs (Adulteration) Act, 1928, there existed (apart from the four County Boroughs) five Food and Drugs Authorities, *i.e.*, the County Council and the Borough Councils of Congleton, Hyde, Macclesfield and Stalybridge. As a result of the 1938 Act the County Council took over the administration in these latter four towns and at the same time the Borough of Crewe was created a Food and Drugs Authority by direction of the Ministry of Health. The right of a Council to be a "Food and Drugs Authority" is based on the population figures of the "last published census" and it is possible that certain changes may follow publication, next year, of the final figures in connection with the 1951 census.

The Administrative duties under the Act have been divided by the County Council between the Public Health Department and the Weight and Measures Department, the former dealing mainly with the bacteriological side of milk production, *i.e.*, tuberculous milk, special designations of milk (pasteurised and sterilized) etc., whereas the latter Department deals with matters relating to adulteration and the enforcing of the appropriate standards of quality prescribed for foods.

The Inspectors of Weights and Measures, acting as authorised officers and Sampling Officers under the Act, obtain samples of milk and any type of food or drug exposed for sale or in transit and these are submitted to the County Analyst (S. E. Melling, Esq., M.Sc., F.R.I.C.), or to his Deputy (J. G. Sherratt, Esq., B.Sc., F.R.I.C.) for analysis.

Whilst the majority of the sampling must of necessity be of a routine character nevertheless quite a number of samples are obtained as a result of complaints from members of the public or the large Dairy Companies. The latter, of course, deals with millions of gallons of milk annually and have their own laboratories in which they check the incoming milk. Should anything serious be found word is immediately sent to the Weights and Measures Department and officers take official samples with a view to prosecution.

During the year a total of 2,041 samples of all types of foods and drugs were submitted for analysis as to their quality, these comprised 1,332 milks and 709 other articles.

The following table will show the types of articles sampled:—

Article of Food or Drug	Total Analysed	Samples certified as adulterated or otherwise not in order.
Milk	1,332	92
Cheese	31	—
Butter	29	—
Cooking Fat	28	—
Margarine	27	—
Pastes, Fish or Meat	25	—
Ice Cream	19	—
Sugar	16	1
Bacon	14	—
Jam	14	—
Whisky	14	—
Condensed Milk	12	—
Soft Drinks	10	—
Malt Vinegar	7	—
Rum	6	1
Iodised Salt	5	3
Synthetic Cream	4	1
Brandy	4	—
Syrup of Figs	3	1
Liver Sausage	3	1
Beef Sausage	2	1
Pork Sausage	2	—
Bovine Fat	1	1
Common Salt	1	—
Table Salt	1	—
Condiments, Flavourings, etc.	72	—
B.P. Official Preparations, simple household medicaments, etc.	157	—
Miscellaneous Groceries and unclassified articles	202	—
	2,041	102

It will be noticed that, as usual, the vast majority of the non-standard samples were milks although it must be pointed out that the figure of 92 includes *all* milk samples which failed to reach the standard laid down in the Sale of Milk Regulations. Roughly a third (33) of the milks contained extraneous (or added) water in amounts ranging from 28 to 1.5 per cent., 25 samples were deficient in fat, and 34 deficient in non-fatty solids. A good proportion of the deficiencies in fat and non-fatty solids were caused through abnormal conditions of the herds and even though the samples were below standard they were, in fact, "genuine".

It was necessary to institute legal proceedings in respect of:—

- 13 milk samples containing extraneous water.
- 1 milk sample 50.6% deficient in fat.
- 1 rum sample containing 11.8% excess water.

The most serious case of added water, *i.e.*, 28 per cent., came to light in a rather roundabout manner. It started when an Inspector obtained three samples in the ordinary way from a retailer in Stalybridge and the subsequent analysis proved that each contained a small quantity of extraneous water. The following day the Inspector accompanied the retailer when he went to his supplier (a well-known Dairy Company) to collect his usual supply. A sample was taken from each of two churns he then collected and these also contained a similar quantity of extraneous water to that found the previous day. As the amount of extraneous water was comparatively small the Dairy Company were subsequently cautioned. Some time later, as a direct result of this caution, the Dairy Company had private samples taken from a number of farmers who supplied them with milk and discovered that one was sending in watered milk. The Company communicated the results to this Department and an Inspector made arrangements to follow the Dairy Company's lorry and take samples at the farm at the time of collection. Two churns were sampled at the farm and were subsequently certified as containing, respectively, 15.7 and 28 per cent. of extraneous water. The farmer was prosecuted and was fined £5 and £2 12s. 6d. costs in each case, a total penalty of £15 5s. 0d.

The most serious deficiency in fat concerned two routine samples taken from a retailer—one proved to be 50.6 per cent. deficient in fat and the other contained 4.3 per cent. of extraneous water. As a result of this a sample was taken from each of seven churns on a lorry as they were being delivered to the retailer by his supplier—each of these contained extraneous

water although they were up to standard in fat content. Accordingly, proceedings were instituted against both the retailer and his supplier, resulting in the retailer being fined £10 and £6 6s. costs in respect of the sample deficient in fat, and his supplier being fined £2 in respect of each of the seven churns containing extraneous water, together with £9 8s. 0d. costs—a total penalty of £23 9s. 0d.

A very surprising feature of one of the milk samples was reflected in the County Analyst's report that it was "phenomenally rich milk, containing 9.5 per cent. of extraneous water". The sample, in fact, contained 7.93 per cent. of fat and in spite of the extraneous water was actually much richer than ordinary milk of standard quality. Bearing in mind that it would have been difficult to prove that the sale was "to the prejudice of the purchaser", no proceedings were taken but the seller was cautioned.

An instance clearly showing the value of the protection given to farmers by the taking of "appeal to cow" samples concerned a sample taken from a retailer in the street and found to be 26.6 per cent. deficient in fat. The following day an "appeal to cow" sample was taken at the farm from the herd of five cows producing the milk and this sample was certified as 16.6 per cent. deficient in fat. However, the original sample sold by this trader was so much poorer than the extremely poor milk found to be given by his cows, that he was cautioned by letter in respect of the original sample.

The above instances will give a general idea of the scope of the work done in the constant endeavour to ensure the sale of good quality milk.

As to the non-standard samples other than milk—it will be noticed that only ten out of the 709 obtained were certified as failing in some respect to comply with the law either as to compositional quality or labelling requirements. A summary of these samples, showing the analysis in parenthesis, follows:—

1. *Sugar.* (A sample of dirty sugar, contaminated to such a degree as to render it not of the dietetic quality of the article demanded. The sample contains 2.2% of common salt—further microscopical examination reveals the presence of many starch cells together with textile fibres some coloured blue and other debris). This sample was received from a householder who complained of its dirty appearance. Following the receipt of the result of analysis a formal sample was obtained from the shop from

which it was originally purchased but this proved to be genuine. There is little doubt that the sugar originally purchased by the householder had been the subject of an accident. Probably the usual blue type of bag had burst, after being dropped, and the contents salvaged, picking up the dirt and foreign substance in the process. The seller was cautioned.

2. *Rum.* (Contained 11.8% excess water). As a result of a complaint regarding the quality of spirits sold at a certain hotel a sampling officer arranged for his assistant to purchase a tot of rum at the bar. Immediately the sale was complete the Sampling Officer, who had kept observation nearby, asked for two double rums. The proprietor's wife, who was serving, went towards the bottle she had just served from but suddenly changed her mind and disappeared down a corridor. She later returned with what appeared to be a full bottle of rum and poured out two double rums. The Sampling Officer divided the sample in the usual way and then demanded two double rums from the original bottle from which the tot had been served. Although the licensee's wife insisted that it was the same as the rum in the bottle she had brought from the rear of the premises the officer ultimately obtained his sample.

As might be expected, when the certificates of analysis were subsequently received it was found that the rum taken from the bottle brought from the rear was of genuine quality whereas the rum in the bottle from which the tot had been served was adulterated with 11.8 per cent. of excess water. The licensee was prosecuted and fined £5 and £2 2s. 0d. costs for the offence.

3. *Iodised Salt.* (Contained 307 micrograms of iodine per ounce whereas label stated minimum iodine was 433 micrograms per ounce). Although there is no standard respecting the iodine content of iodised salt, manufacturers have agreed with the Ministry of Food to conform to a code of practice in which it is laid down that the iodine content shall be 433 to 725 micrograms per ounce and that a statement to this effect shall appear on the label of the packet. Owing to mechanical difficulties in mixing such a small amount of iodine in bulk salt it is nearly impossible to maintain consistency throughout the article, and this, coupled with the fact that once the packets have left the premises of the manufacturer they are subjected to many adverse conditions, such as long storage, dampness, etc., has a serious effect on such a

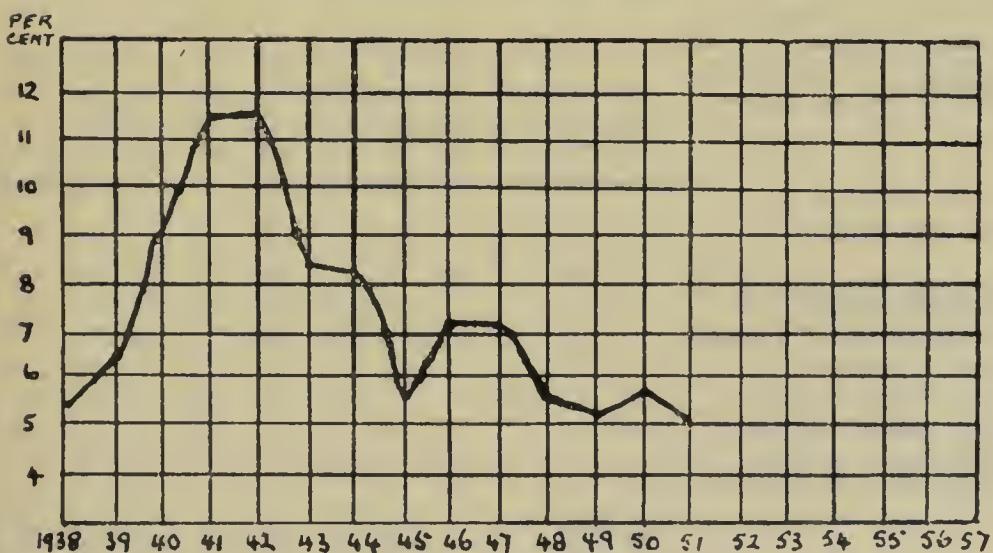
volatile substance as iodine. The whole position has been reported to the Ministry of Food and they are at present considering if any changes can be made to overcome the difficulties disclosed.

4. *Iodised Salt.* (Contained 375 micrograms per ounce whereas label stated minimum iodine content was 433 micrograms per ounce). See remarks No. 3.
5. *Iodised Salt.* (Contained 317 micrograms of iodine per ounce whereas label stated minimum iodine content was 433 micrograms per ounce). See remarks No. 3.
6. *Synthetic Cream.* ("Genuine" synthetic cream but failed to comply with the Labelling of Food Order, 1950). The label on the carton was ambiguous inasmuch as in the declaration of ingredients the term "and/or" was used in relation to certain ingredients. The manufacturers were cautioned and after considerable correspondence with them and the Ministry of Food they agreed to remove the term when new cartons are printed.
7. *Syrup of Figs.* (Compound). (Contained 0.11 per cent. of Phenolphthalein as against 0.02 per cent. stated in formulae on bottle). This bottle purchased at a retail shop was found to contain practically five times as much Phenolphthalein as the amount stated on the label. On investigation it was found that the packer, who purchased in bulk from a manufacturing chemist, had failed to notice that the formulae on the label of his bulk supply had been changed and he had continued to use his old labels in ignorance. The manufacturing chemist admitted changing the label without specifically drawing attention to the alteration. New labels, complying with the amended formulae, have been obtained by the packer.
8. *Liver Sausage.* (Liver sausage containing 40 parts per million of zinc). This sample was purchased at a retail shop and had been manufactured by a well-known firm. On investigation at premises of manufacturer no possible cause for the zinc contamination could be discovered but a feasible solution was that the liver had rested in galvanised iron containers at the abattoir.
9. *Beef Sausage.* (Genuine beef sausage containing 45 parts per million of undeclared sulphur dioxide preservative). The seller of this sample was cautioned as the preservative content was only one-tenth the amount legally permitted, subject to being declared at the time of sale either by a label round the sausage or by a notice displayed in the shop.

10. *Bovine Fat.* (Consisting entirely of horse fat and therefore is not as stated bovine fat). This sample was taken as a result of an intimation by a Sanitary Inspector of a District Council that a quantity of animal fat, reported to be bovine fat, but suspected to be horse fat, had been seized by him in the course of his duties at an abattoir. The District Council concerned instituted proceedings and the Magistrates imposed a fine of £2 together with costs amounting to approximately £7.

In conclusion it is highly gratifying to place on record that only 5 per cent. of all the samples obtained in Cheshire during the year 1951 were found to be adulterated or non-standard. This is a great achievement by all concerned in food production and particularly so when it is realised that it is the lowest percentage since well before the war. Further emphasis is given to this by a glance at the following graph which shows that during two of the war years the adulteration figure reached as high as 11.5 per cent.

Percentage of Adulteration.



Section IX. Mental Health

PART I. MENTAL ILLNESS.

TABLE I

The following table shows the number of Patients suffering from mental illness admitted to hospital during the period 1st January to 31st December, 1951.

HOSPITAL	Mental Treatment Act, 1930					Lunacy Act, 1890					TOTALS		
	s. 1 (Vol.)	s. 5 (Temp.)	s. 20 (3 Day)	s. 21 (14 Day)	s. 16 (Certified)	M.	F.	M.	F.	M.	F.		
<i>Liverpool Region</i>													
Upton, Chester	—	48	63	—	2	5	2	20	34	32	76	105	177
Rainhill, Liverpool	—	2	3	—	—	—	—	—	—	—	—	2	3
Winwick, Warrington	—	3	2	—	—	2	1	2	4	2	5	9	12
Ormskirk, Lancs.	—	—	—	—	—	—	—	—	2	—	1	—	3
Tranmere, Birkenhead	—	1	1	—	—	2	—	22	8	4	2	29	11
Haydock Lodge, Lancs.	—	—	1	—	—	—	—	—	—	—	—	—	1
	54	70	—	2	9	3	44	48	38	84	145	207	
<i>Manchester Region</i>													
Parkside, Macclesfield	—	23	13	—	1	9	7	15	18	43	64	90	103
Prestwich, Manchester	—	—	—	—	—	—	—	—	—	2	1	2	1
Lancaster Moor, L'caster	—	2	—	—	—	—	—	—	—	—	1	—	3
Barony, Nantwich	—	2	2	—	—	1	—	4	6	7	27	14	35
Shaw Heath, Stockport	—	—	—	—	7	4	1	10	8	11	16	25	
Lake, Ashton-u-Lyne	—	—	—	—	2	1	—	2	3	—	5	3	
Ollersett, New Mills	—	—	—	—	—	—	—	—	—	5	—	5	
Crumpsall, Manchester	—	—	—	—	—	—	—	—	—	—	1	—	1
	25	17	—	1	19	12	20	36	63	110	127	176	
<i>Others</i>													
Cheadle Royal, Cheshire	—	1	2	—	—	—	—	—	—	2	5	3	7
Denbigh, N. Wales	—	—	—	—	—	—	—	—	—	—	1	—	1
	1	2	—	—	—	—	—	—	—	2	6	3	8
Totals	—	80	89	—	3	28	15	64	84	103	200	275	391
Combined Totals	—	169	—	3	—	43	—	148	—	303	—	666	

TABLE II.

Source of Notification of Cases of Mental Illness.

DISTRICT.	No. of Admissions	FAMILY Doctor	Hospital Doctor	Out-Patient Clinic	Police	Relatives	Divisional M.O.	Adjacent Authority	Total Notifications	Out-Patient Clinic
<i>Liverpool Region</i>										
1. Wirral	—	—	—	—	147	105	34	80	2	4
2. West Cheshire	—	—	—	—	111	43	54	26	3	5
3. Runcorn	—	—	—	—	82	32	20	10	1	4
	340	180	108	116	2	15	9	6	2	14
<i>Manchester Region</i>										
4. Mid-Cheshire	—	—	—	—	39	44	10	2	6	4
5. Nantwich	—	—	—	—	38	55	19	—	2	1
6. Crewe & Sandbach	—	—	—	—	34	24	9	—	—	3
7. Altringham & Sale	—	—	—	—	24	18	4	—	—	—
8. Bucklow & Wilmslow	—	—	—	—	34	30	5	—	—	—
9. Macclesfield & Congleton	—	—	—	—	64	95	27	—	24	10
10. North-East	—	—	—	—	38	61	11	2	1	15
11. Hyde & Stalybridge	—	—	—	—	56	96	13	3	12	11
	327	423	98	7	—	51	67	16	3	17
TOTAL	—	—	—	—	667	603	206	123	2	66
Discharged during period 1/1/51 to 31/12/51									5	476
Died	,	,	,	,					31	159
									1134	635

General.

Pressure on accommodation has continued to be the main anxiety during the year under review, and the statistics reveal no downward trend in the incidence of mental illness. Finding suitable accommodation for aged senile patients, and endeavouring to avoid recourse to the Lunacy Code, are ever present problems.

Admissions.

As it is not possible to compile a detailed statement of the varying types of mental illness dealt with at the time of admission to hospital, diagnosis generally following reception, it is of some interest to note particulars furnished by Upton Mental Hospital on the After-care reports in regard to the patients discharged during 1951, which may be taken as a fair cross-section of mental illness, and an indication of the position following restoration to the community, viz.:—

<i>Nature of Illness</i>	<i>Males</i>	<i>Nature of Illness</i>	<i>Females</i>
Depression	16	Depression	27
Chronic Anxiety State	1	Depression Menopausal	10
Anxiety Neurosis	1	Depression Reactive Hysteria	8
Neurosis	6	Neurosis	1
Psychoneurosis	3	Neurosis Chronic	1
Melancholia	5	Neurosis Obsessional	
Mania	1	Ruminative	2
Schizophrenia	12	Anxiety Neurosis	4
Schizophrenia Catatonic	1	Melancholia	6
Paraphrenia	1	Hysteria	4
Parenoia	1	Neurasthenia	1
Hysteria	3	Chronic Mania	1
Alcoholic	1	Schizophrenia	16
Senile Dementia	1	Paranoid State Menopausal	3
Aggressive Psychopath	1	Dementia Secondary	1
Psychopathic Personality	4	Senile Dementia	3
Inadequate Psychopath Hysteria	1	Delusional State	2
Not stated	5	Epilepsy	2
		Confusional State	4
		Affective Psychosis	1
		Psychopathic Personality	2
		Cyclo-thymic Psychopath	1
		Thyrotoxicosis	1
		Moral Defective	1
		Not stated	3
	64		105

Of the foregoing discharge of patients, the status and conditions were as follows:—

Males

	<i>Status</i>	<i>Recovered</i>	<i>Relieved</i>	<i>Not Improved</i>
54	Voluntary	18	24	12
10	Certified	3	6	1
—		—	—	—
64		21	30	13
—		—	—	—

	<i>Status</i>	<i>Recovered</i>	<i>Relieved</i>	<i>Not Improved</i>
72	Voluntary	31	32	9
33	Certified	18	13	2
—		—	—	—
105		49	45	11
—		—	—	—

Females

72	Voluntary	31	32	9
33	Certified	18	13	2
—		—	—	—
105		49	45	11
—		—	—	—

The periods spent in hospital, prior to discharge, are as under:—

<i>Males</i>	Under 1 mth.	1—3 mths.	3—6 mths.	6—9 mths.	9—12 mths.	Over			
						1 yr.	2 yrs.	3 yrs.	4 yrs.
Voluntary	54	20	20	9	4	—	—	—	1
Certified	10	—	2	5	—	1	2	—	—
—	—	—	—	—	—	—	—	—	—
	64	20	22	14	4	1	2	—	1
—	—	—	—	—	—	—	—	—	—

<i>Females</i>	Under 1 mth.	1—3 mths.	3—6 mths.	6—9 mths.	9—12 mths.	1 yr.	2 yrs.	3 yrs.	4 yrs.
Voluntary	72	24	35	9	2	1	1	—	—
Certified	33	1	16	6	3	1	1	—	5
—	—	—	—	—	—	—	—	—	—
	105	25	51	15	5	2	2	—	5
—	—	—	—	—	—	—	—	—	—

Out-Patient Clinic.

The Manchester Regional Hospital Board have now established psychiatric clinics at Stepping Hill Hospital, Stockport, and Lake Hospital, Ashton-under-Lyne, supplementing the existing one at Rosemount, Macclesfield, and five in the Liverpool Regional Hospital Board's Area.

After-Care.

The numbers of cases referred to the Department for after-care visitation on discharge from hospital during the year were Upton 42 cases, Parkside 64 cases, Winwick 22 cases, other hospitals 1 case.

Records.

The number of patients admitted from the Administrative County and receiving treatment at the respective hospitals, as extracted from the weekly reports of Authorised Officers and the statutory returns issued by Hospital Management Committees, are as follows:—

Hospital	Patients at 31/12/51		Patients at 30/6/51		Patients at 1/7/50	
	Men	Women	Men	Women	Men	Women
Upton	293	486	296	490	300	468
Parkside	585	723	575	727	576	711
Stockport	27	31	29	34	26	29
Ashton	23	13	17	16	36	31
Nantwich	22	36	20	34	14	21
Others	128	147	92	109	56	78
	<u>1,078</u>	<u>1,436</u>	<u>1,029</u>	<u>1,410</u>	<u>1,008</u>	<u>1,338</u>

PART II.**MENTAL DEFICIENCY**

The following Table gives particulars of the cases reported during 1951, and their disposal together with a classification of some special categories:—

	Total as at During 1951		1st January, 1952	
	Under aged 16 aged 16 and over	Under age 16 and over	M. F.	M. F.
	M. F.	M. F.	M. F.	M. F.
1. <i>Particulars of Cases reported during 1951:—</i>				
(a) Cases reported by Local Education Authorities (Section 57, Education Act, 1944):—				
(i) Under Section 57 (3) —	31	25	—	—
(ii) Under Section 57 (5):—				
On leaving special schools	5	2	—	—
On leaving ordinary schools	—	—	—	—
(b) Cases referred by the police or by the Courts under Section 8 (1) (a) (or as a result of other action by the Courts)	—	—	1	—
(c) Other defectives reported during 1951:—				
(i) Found "subject to be dealt with"	1	1	5	6
(ii) not at present "subject to be dealt with"	—	—	—	—
Total number of cases reported during the year	37	28	6	6

Total as at
During 1951 1st January, 1952

	Under age 16	Aged 16 and over	Under age 16	Aged 16 and over
--	--------------	------------------	--------------	------------------

	M.	F.	M.	F.	M.	F.	M.	F.
--	----	----	----	----	----	----	----	----

2. Disposal of Cases

(a) Those found "subject to be dealt with"								
(i) Placed under Statutory Supervision	35	26	5	4	202	163	252	360
(ii) Placed under Guardianship	-	-	-	-	-	-	-	-
(iii) Taken to "Places of Safety"	-	1	-	-	6	4	-	2
(iv) Admitted to Institutions	2	-	1	2	41	24	314	218
(v) Died or removed from area	-	1	-	-	-	-	-	-
(vi) Action not yet taken	-	-	-	-	2	3	33	49
(b) Those not at present "subject to be dealt with"								
(i) Placed under Voluntary Supervision	-	-	-	-	-	-	-	-
(ii) Later found not to be defective	-	-	-	-	-	-	-	-
(iii) Died or removed from area	-	-	-	-	-	-	-	-
(iv) Action unnecessary	-	-	-	-	-	-	-	-
(v) Action not yet taken	-	-	-	-	-	-	-	-
Total of Item 2	37	28	6	6	251	194	599	629

3. Classification of defectives in the Community on 1/1/52

(a) Cases included in Item 2 (a)								
(i) to (iii) above in need of institutional care:—								
(1) In urgent need of institutional care:—								
(i) cot and chair cases	-	-	-	-	3	5	1	-
(ii) ambulant low grade cases	-	-	-	-	11	10	3	1
(iii) medium grade cases	-	-	-	-	7	6	6	5
(iv) high grade cases	-	-	-	-	-	3	3	-
(2) Not in urgent need of institutional care:—								
(i) cot and chair cases	-	-	-	-	5	1	-	-
(ii) ambulant low grade cases	-	-	-	-	5	4	-	1
(iii) medium grade cases	-	-	-	-	2	2	1	5
(iv) high grade cases	-	-	-	-	1	-	-	2
Total of Item 3	-	-	-	-	34	31	14	14

	Total as at During 1951		1st January, 1952	
	under age 16	Aged 16 and over	Under age 16	Aged 16 and over
	M.	F.	M.	F.
(b) Of the cases included in item 3 (a) above, number in need of institutional care <i>only</i> because of poor environment:—				
(i) medium grade cases	—	—	—	—
(ii) high grade cases	—	—	—	—
Total of Item 3 (b)	—	—	—	—
(c) Of the cases included in items 2 (a) (i) and (ii) and 2 (b) (i) above, number considered suitable for:—				
(i) occupation centre	—	—	—	52 34 7 11
(ii) industrial centre	—	—	—	—
(iii) home training	—	—	—	—
Total of Item 3 (c)	—	—	—	52 34 7 11
(d) Number of cases receiving training on 1/1/52				
(i) in occupation centre	—	—	—	3 3 4 3
(ii) in industrial centre	—	—	—	—
(iii) at home	—	—	—	—
Total of Item 3 (d)	—	—	—	3 3 4 3

Institutional Accommodation.

During the year 1951 vacancies were found for mentally defective persons in Institutions as follows:—

Cranage Hall Hospital, Holmes Chapel	.....	.....	5
Brockhall Hospital, Langho, Lancs.	.....	.....	8
Royal Albert Hospital, Lancaster	.....	.....	2
Swinton Homes, Manchester	.....	.....	1
Calderstones Hospital, Whalley, Lancs.	.....	.....	4
The Manor, Great Sutton	.....	.....	1
Mary Dendy Hospital, Alderley Edge	.....	.....	4
Royal Western Counties Hospital, Devon	.....	.....	1

Since the year under review there has been some improvement in the accommodation of active imbecile children, and I am pleased to record that the Manchester Regional Hospital Board is developing its accommodation for this category.

The following Table shows the Institutions where patients were accommodated at the end of the year under review:—

	Under age 16		Aged 16 and over		Under age 16	Aged 16 and over		Total
	M.	F.	M.	F.	Total	Total		
Cranage Hall, Holmes Chapel	17	17	132	129	34	261	295	
The Manor, Gt. Sutton	—	—	—	2	—	2	2	
Prudhoe & Monkton Colony, Northumberland	—	—	—	—	1	—	1	1
Brockhall Hospital, Blackburn	4	2	6	4	6	10	16	
Caersws Hospital, Mont.	—	—	1	—	2	1	2	3
Arclid Hospital, Sandbach	—	2	—	20	5	2	25	27
Royal Earlswood Hospital, Redhill	—	—	—	—	1	1	—	2
Royal Albert Hospital, Lancaster	5	—	8	7	5	15	20	
Stoke Park Colony, Bristol	—	1	—	9	7	1	16	17
Whittington Hall Hospital, Chesterfield	—	—	—	—	2	—	2	2
Swinton Homes, Manchester	5	3	—	—	2	8	2	10
Calderstones Hospital, Lancs.	4	—	23	2	4	25	29	
Mary Dendy Hospital, Alderley Edge	—	—	2	1	89	39	3	128
Gillibrand Hall, Chorley	—	—	—	—	2	—	2	2
Seafield House, Lancs.	—	—	—	2	—	—	2	2
St. Raphael's Colony, Brentford	—	—	—	1	—	—	1	1
St. Mary's Home, Alton	—	—	—	—	1	—	1	1
Totterdown Hall, Weston- super-Mare	—	—	—	—	1	—	1	1
Bentry Colony, Bristol	—	—	—	3	—	—	3	3
Ashton House Hospital, Birkenhead	—	—	—	—	4	—	4	4
Birkenhead Mental Hospital	—	—	—	1	—	—	1	1
Hillside, Buntingford	—	—	—	1	—	—	1	1
Lisieux Hall, Chorley	—	—	—	1	—	—	1	1
Durran Hill, Carlisle	—	—	—	—	1	—	1	1
Botley's Park, Chertsey	—	—	—	—	1	—	1	1
Rampton State Institution, Retford	—	—	1	—	10	3	1	13
Moss Side Institution, L'pool	—	—	—	6	1	—	7	7
Royal Western Counties Hospital, Devon	—	—	—	1	—	—	1	1
Royal Eastern Counties Hospital Essex	—	—	—	—	1	—	1	1
	41	24	314	218	65	532	597	

Supervision.

Male defectives in their own homes have continued to be supervised by Authorised Officers and female defectives by Health Visitors.

Places of Safety.

At the end of the year 1951 the following numbers were detained temporarily in the Institutions shown, pending permanent accommodation under the Mental Deficiency Acts:—

Whitecross Homes, Warrington .....	.....	5
Atherleigh Hospital, Leigh .....	.....	5
Mary Dendy Hospital, Alderley Edge .....	.....	1
Ashton House Hospital, Birkenhead .....	.....	1
	—	
	12	
	—	

Occupation Centres.

The establishment of the New Ferry Occupation Centre is, strictly speaking, outside the year under review, as it was not opened until May, 1952, but I am taking the opportunity to record the establishment of this much needed facility for defectives in the Wirral area. Use is also made by Cheshire of the Warrington, Wythenshawe and Wallasey Occupation Centres for defectives living within a reasonable distance.

It is hoped that it will not be long before another Occupation Centre in another part of Cheshire is established by the County Council.

Discharges from Order.

Four cases who had been on licence from Institutions were discharged from Order during the year under review.

General.

Reports on defectives, and on their home conditions have been supplied to Hospital Management Committees. Medical evidence has been given in regard to defectives before the Magistrates for various offences, and there has been the fullest co-operation with the Children's Department.

Section X.-Domestic Help

Under Section 29 of the National Health Service Act, 1946, the County Council is empowered to provide a Domestic Help Service for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, mentally defective, aged, or a child not over compulsory school age.

The service is one of those which have been devolved to Divisional Health Committees for organisation, administration, and management within the approved estimates. It is not one of the services provided free under the Act, and the Local Health Authority has adopted the payment scale recommended by the County Councils Association.

Number of Domestic Helps employed at 31st December, 1951:—

- (a) Whole-time, 46
- (b) Part-time, 327

Number of cases in which Domestic Helps were provided under the Council's Scheme—2012.

Section XI.-Home Nursing

Under Section 25 of the National Health Service Act, the County Council has the duty to provide a full service for nursing sick persons at home free of charge to the patient.

Details of the nurses and nurse-midwives employed by the County Council are given earlier in this report, together with their districts.

District Nurses have been accustomed to provide their patients with items of nursing equipment, often small or consumable, such as paper handkerchiefs, urinals, and hot water bottles, but often larger or transferable, such as air beds and crutches; in some cases there had been more expensive items to lend, such as bath chairs. Arrangements have been made for continuing the supply of all such items on a greatly increased scale, and this service now forms part of the County Council's arrangements under Section 28 of the Act (see Section V).

The following statistics give some idea of the scope of the service and the work done:—

(a) Number of Home Nurses at 31/12/51:—		
(1) Whole-time on General Nursing	—	42
(2) Part-time on General Nursing	—	123
(b) Equivalent whole-time home nursing service provided in (a) (2)	—	104
(1) Number of visits paid by Home Nurses, 1951	—	415,171
(2) Number of cases attended by Home Nurses 1951	—	18,108
(c) Number of houses owned by County Council		23
(d) Number of motor vehicles owned by County Council	—	62
(e) Number of nurses receiving County allowance for their own cars	—	48
(f) Number of telephone rentals being paid	—	122

Section XII.-Handicapped Persons

General

Under Section 29 of the National Assistance Act, 1948, the County Council provides Welfare Services for handicapped persons, and the scheme under this heading has been made the responsibility of the County Health Committee.

The classes of handicapped persons to which the section applies are the blind, the partially sighted, the deaf or dumb, and others substantially and permanently handicapped by illness, injury, congenital deformity, or such other disability as may be prescribed. Enquiry and discussion have proceeded with the various associations concerned regarding all these categories, and help has in some cases been given by the supply of materials for work at home.

Guidance from the Ministry regarding the preparation of detailed schemes was not received until September, 1951, and the County Council's schemes were not finally approved by the Ministry until March, 1952.

Blind Persons

The Council's approved scheme so made continues, with necessary amplification, the scheme carried out in previous years in accordance with the Blind Persons Acts. Its details are executed by the Blind Welfare Societies at Chester, Ashton-under-Lyne, and Macclesfield, with which appropriate financial arrangements have been made. The Welfare Services of these Societies have, in accordance with the new scheme, been extended, so far as they are applicable, to partially sighted persons.

Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants were examined by one of the County Oculists. Those who so wished were examined a second time under the Medical Referee Service—conducted jointly with the North Regional Association—by independent Medical Referees.

Statistics

Number of Registered Blind Persons in the County at
31st March

			1951
Under 5 years ..	..	..	6
5—16 years ..	..	..	21
16—21 years ..	..	..	13
21—40 years ..	..	..	97
40—50 years ..	..	..	80
50—65 years ..	..	..	251
65—70 years ..	..	..	126
70 years and over ..	..	..	563
Unknown age ..	..	..	—
Total ..	..	..	1157

Registered Blind Persons in County, aged over 16 years, employed,
or otherwise, at 31st March

		1951
Employed	{ in Workshops & Workrooms ..	15
	{ as Home workers ..	22
	{ variously	67
Unemployed ..	.. .. ..	1013
Undergoing Training ..	.. .. ..	7

Workshop Employees

Annual grants were continued at a fixed rate per head to recognised Workshops for Cheshire employees. A "minimum wage" principle has been adopted for certain workers, their income being made up to a fixed amount. On this principle there were 7 male and 2 female employees at Chester, 3 male employees at Macclesfield, 1 male employee at Warrington, 1 male employee at Stockport and 1 male employee at Henshaw's at the end of 1951, while on the fixed rate system there were 2 males at Liverpool and 1 female at Henshaw's.

Home Workers

The three voluntary societies arranged for the employment at home of those capable of it. Augmentation of 31/- weekly was given by the Council to all County approved Workers, who numbered 19 at the end of 1951.

National Library for the Blind

Grant and augmentation were made in 1951 to the National Library for the Blind on behalf of 1 Cheshire Home Worker who is a Blind Copyist for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

Other Services

The usual annual grants were continued in 1951 to the National Institute for the Blind and the North Regional Association for their respective national and regional services.

Wireless Certificates

147 Certificates entitling the recipients to a free wireless licence were issued in 1951 to applicants on the register.

Section XIII.-Water Supplies, Sewerage and Sewage Disposal

Local Authorities are still handicapped by the state of financial stringency which shows no signs of improving, the rising cost of public works, and the shortage of labour and materials. In the whole history of local government it is doubtful whether conditions have been more difficult. Schemes of District Councils which in normal times would have been given ministerial approval without undue delay are now subject to deferment due to the economic situation. Priority is being given to those schemes which are considered to be the most urgent. Included in this category is the extension of mains water in rural areas, but even in this work the rate of progress is governed by the restricted supply of pipes and valves.

The responsibility for the prevention of river pollution has now passed to the Cheshire Rivers Board which was established on the 1st April. The County Council, however, is still concerned with sewerage and sewage disposal in rural areas from a public health standpoint, and is, in fact, under an obligation to contribute towards the cost of such works under the provisions of the Rural Water Supplies and Sewerage Act, 1944. The County Council may also contribute towards the cost of such works in an urban area under the provisions of the Public Health Act, 1936. This gives the County Council an opportunity to express its views on schemes of District Councils, or to make suggestions for co-operation between neighbouring authorities, where practicable.

During this year attention has been focussed on the Mid-Cheshire area where local developments indicate more urgently the desirability for co-operation in matters of sewerage and sewage disposal between the Northwich Urban and Rural Councils.

Surrounding the town of Northwich are several semi-urban parishes in the Rural District, which are drained to independent sewage works. It is very doubtful whether these works would have been constructed if the two districts had been administered by a single authority. Most of the works are now operating at or near their maximum capacity. Northwich Urban Council also has considerable future commitments on works of this nature.

The County Council is of the opinion that a long term policy as regards sewerage and sewage disposal should now be considered

with a view to the ultimate elimination of some of the existing sewage disposal works in this area. This matter is being investigated by the County Council's consulting engineer, and it is intended to obtain the views of the Ministry of Housing and Local Government on a scheme for joint works of sewerage and sewage disposal.

There has been considerable delay in reaching an agreement between Crewe Corporation and Nantwich Rural Council on a suggested scheme for joint works of sewage disposal for the town of Crewe and the adjacent parishes in Nantwich Rural District. This was the subject of a conference with the Ministry in January.

No agreement has yet been reached in three other proposed joint schemes of sewerage and sewage disposal, recommended by the County Council. Although such joint schemes are preferable for technical reasons, or from a planning or amenity standpoint—enabling one or more sewage works to be eliminated—they are invariably more costly than separate schemes on account of long lengths of outfall sewer which are an unavoidable feature in joint schemes. Consequently there is some reluctance in co-operating on the part of local authorities.

Ministerial inquiries were held during the year into the following schemes:—

1/5/1951	Tarvin Rural District Council	£8,700	Works of sewerage and sewage disposal for the village of Ashton.
		£3,900	Works of sewerage and sewage disposal in the parish of Clutton.
		£7,472	Works of sewerage and sewage disposal for the village of Tilston.
5/4/1951	Nantwich Rural District Council	£980	Works of sewerage for the parish of Basford (part)
		£6,300	Works of sewerage and sewage disposal for the village of Weston.
26/9/1951	Congleton Borough Council	£64,992	Extensions to sewage works to provide for a population of 20,000. (Subsequent proposals for a new town of 60,000 population will necessitate a revision of this scheme).

The restriction of the Ministry on capital expenditure with regard to works of water supply, sewerage and sewage disposal, still remains in operation. Small scale extensions of water mains have been carried out by Runcorn and Tarvin Rural Councils without the holding of formal inquiries. Inquiries into schemes of sewerage and sewage disposal have been limited to rural parishes where local authority housing schemes have stressed the urgency for such services. Even in these instances there is a considerable time lag between the inquiry and the commencement of the work, owing to the continued shortage of labour and materials.

During the year the following schemes were submitted to the County Council for contributions under the Rural Water Supplies and Sewerage Act, 1944.

Water Supplies.

Bollington Urban District.

Works of water supply at an estimated cost of £6,250, comprising a duplicate seven inch pumping main from Millbrook Pumping Station to Lowerbrook Reservoir, two submersible pumps, alterations to an existing venturi meter, installation of a new meter and electric cable for automatic control of pumps.

Stalybridge Borough.

Works of water supply for the Higher Hyde Green area at an estimated cost of £655, comprising 450 yards of two inch and 290 yards of one and a half inch main to supply sixteen isolated houses and two farms.

Runcorn Rural District.

		Estimated Cost
Antrobus	350 yards—3 inch main	£566
Antrobus & Whitley.	280 yards—6 inch link main for the purpose of improving unsatisfactory pressure.	£403
Kingsley.	83 yards—3 inch main	{ £463
	370 yards—2 inch main	
Manley.	360 yards—3 inch main	£465

Tarvin Rural District.

Clotton	437 yards—3 inch main	£540
Hoofield		
Edge.	1380 yards—3 inch main	£1790
Oldeastle	1567 yards—3 inch main	{ £2635
Cuddington	283 yards—4 inch main	
Tilstone	183 yards—3 inch main	£1430
Fearnall		

Sewerage and Sewage Disposal.

Nantwich Rural District.

Basford. Works of sewerage at an estimated cost of £980.

The scheme provides for draining twelve houses immediately outside the sewered area to a small ejector from which the sewage will be pumped into the Shavington sewers.

Weston. Works of sewerage and sewage disposal for the village of Weston, comprising 90 houses and one school. Estimated cost £6,300.

Northwich Rural District.

Delamere—Abbey Arms Area. A proposed sewage works to serve local authority housing development was re-sited at the request of the County Council so as to serve adjacent existing development. A contribution towards the cost was agreed by the County Council.

Davenham, Leftwich and Moulton. Works of sewerage and sewage disposal include the elimination of the unsatisfactory Moulton sewage works and the diversion of Moulton sewage to a sewage pumping station from which the sewage will be pumped to the existing Davenham Sewage Works. The Davenham works will be enlarged so as to deal with Northwich Urban Council's Housing Site, which is being developed in the parish of Leftwich. Estimated cost £32,806.

A small ejector is being installed to pump sewage from Davenham Isolation Hospital into the Rural Council's sewers. This will enable a small independent sewage works serving the Institution to be abolished.

Little Budworth. Works of sewerage for the village of Little Budworth, comprising some thirty-three premises. The proposed scheme includes the provision of a sewage pumping station from which the sewage would be pumped to a large disused sewage works some 900 yards outside the village, which formerly served a military camp.

The Rural Council has been requested to investigate the cost of an alternative gravitation scheme to a small sewage disposal works.

Marston and Wincham. Works of sewerage for the village of Wincham, at an estimated cost of £5,900. The scheme includes the seweraging of some 160 premises to a sewage pumping station from which the sewage is intended to be pumped to sewage works serving the adjacent parish of Lostock Gralam.

Runcorn Rural District.

Kingsley and Norley. Works of sewerage and sewage disposal for the village of Kingsley (population 1,580), and Norley (population 950), at an estimated cost of £84,100.

The County Council has requested Runcorn and Northwich Rural Councils to consider the inclusion of the village of Crowton (Northwich Rural District) in this scheme.

Tarvin Rural District.

Tilston. First stage of works of sewerage and sewage disposal for the village of Tilston, at an estimated cost of £7,472. The Rural Council was requested to consider carrying out a portion of the final stage of works of sewerage which will improve the lay-out of the sewers and ultimately reduce the total cost of the scheme.